



16 Sep 1986

## The Missouri Miner, September 16, 1986

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# missouri miner

Tuesday, September 16, 1986

University of Missouri-Rolla

Volume 75, Number 3

Twenty-Four Pages

## Dear Students:

**They're back! Bloom County and The Far Side have returned! See pages 10 and 11 for the latest releases.**

## Stuco president informs UMR

Dear Students,

It is a great pleasure for me to address you here. I am Robert (Bob) Francis, the president of Student Council here at UMR. I am a senior in electrical engineering from Van Buren, Mo., and also a member of Beta Sigma Psi.

The primary reason for this article is to inform you of upcoming articles from Chancellor Jischke and myself. We are trying to set up a way in which the students can be better informed about what is going on in the University. In this way, you will be able to make more intelligent decisions about the campus.

Two things I think you should know about are the graduate teaching assistant testing and the Chancellor's Brown Bag Lunch.

First, the GTA Effective Teaching Program was started this semester on the University of Missouri campuses. It was the result of a law passed last year and a policy adopted by the Board of Curators in the spring.

The actual layout of the program on this campus was as follows: During the first week of the program, the GTA candidates applying for positions this year were required to spend eight hours

each day in classes on effective teaching and communication skills. The GTAs who have English as a second language also took courses in English and American culture. During the second week, each GTA was tested in a classroom setting by two students, one faculty member and one member of the communications department. The tests included a 10-minute lecture, an impromptu classroom role play situation, and a taped question session from students.

I was a member of many test panels and quickly noticed marked improvements in the lecture presentation and ability to convey ideas. I hope that this program will be continued in the future.

The second item is the Chancellor's Brown Bag Lunch. He has set up a time period for students, faculty and staff to ask questions or to make comments over a "bring your own" lunch. This will be a monthly informal lunch that you are welcome to attend at your convenience.

If you have any questions or comments about upcoming articles from Dr. Jischke or myself or anything, please contact Stu-Co at 341-4280.

Thank you.

Bob Francis

Student Council President

## UMR Coterie-Dames tea held

Source: OPI

The University of Missouri-Rolla Coterie, a faculty wives group, held a get-acquainted tea Sunday, Sept. 7, for prospective members of the UMR Dames organization.

University Dames is a national organization of student wives. The UMR Dames chapter has not been active for the past several years and the UMR Coterie is trying to revitalize the organization.

At the tea, student wives were given the opportunity to sign up for several different interest groups such as bridge, arts and crafts, exercise, conversational foreign language groups and child study among others.

Plans are also under way to form a babysitting co-op, with members sharing babysitting duties. Patty Jischke, wife of UMR Chancellor Martin C. Jischke, said that "the co-op might

make it possible for wives to attend some classes at UMR. This might prove to be one of the club's biggest benefits."

Joan Nelson (Mrs. Ron), a member of the UMR Coterie, was instrumental in organizing the tea. She was a member of the former UMR Dames club and said she saw the need to revitalize the club.

"This is a way to get acquainted and to make friends," Nelson said. "I feel the students' wives need to have an organization of their own."

Nelson has volunteered to serve as interim president for the club. Jo Ann Elloe, president-elect of the UMR Coterie, will serve as chapter adviser.

The UMR Dames will host an organizational meeting at 3 p.m. Sunday, Sept. 28, in the Mark Twain Room of the University Center-East. All UMR student wives are invited to attend. For more information or if unable to attend call Nelson at 364-0465.

## Fees to increase in Summer

UNIVERSITY OF MISSOURI  
SCHEDULE OF RATES OF THE EDUCATIONAL FEE AND THE ENGINEERING COURSE FEE FOR 1986-87  
AND PROPOSED RATES FOR 1987-88  
(Assessed for enrollment in all credit courses, excepting those for which the instructional fee is assessed.)

STUDENT LEVEL	PROGRAM	RESIDENCY	Per Cr	1986-87		Proposed 1987-88		1
				Flat Rate	Flat Rate	Flat Rate	Flat Rate	
Lower Division (Fr-Sr)	--	Missouri	\$47.00			\$49.60		5.53%
		Nonresident	\$141.00			\$148.80		5.53%
Upper Division (Jr-Sr)	--	Missouri	\$52.00			\$54.90		5.58%
		Nonresident	\$156.00			\$164.60		5.51%
Graduate	--	Missouri	\$63.00			\$66.50		5.56%
		Nonresident	\$171.00			\$180.40		5.50%
First Professional and Related	Dentistry, DDS	Missouri	\$110.00	\$878.50b	\$1,757.00f	\$115.80	\$926.40b	5.45%
	Yrs 1-2 of 6	Nonresident	\$175.00	\$1,393.50b	\$2,787.00f	\$183.80	\$1,470.40b	5.52%
	Dentistry, DDS (Trimesters)*	Missouri	\$128.00		\$2,048.00f	\$135.00	\$2,160.00f	5.47%
		Nonresident	\$203.00		\$3,248.00f	\$214.20	\$3,427.20f	5.52%
	Dentistry, DDS (Semesters)*	Missouri	\$128.00	\$716.00+ \$1,788.00++	\$2,503.00b	\$132.00	\$756.00+ \$1,886.00++	5.47%
		Nonresident	\$203.00	\$1,134.00+ \$2,836.00++	\$3,970.00b	\$209.40	\$1,196.00+ \$4,188.00b	5.49%
	Dentistry, GE Cert & MS	Missouri	\$193.00	\$1,351.00a	\$2,702.00d	\$203.60	\$1,425.20a	5.49%
		Nonresident	\$306.00	\$2,142.00a	\$4,284.00d	\$322.80	\$2,259.60a	5.49%
	Law, JD, UMC	Missouri	\$91.00		\$1,274.00d	\$96.00	\$1,344.00d	5.49%
		Nonresident	\$206.00		\$2,884.00d	\$217.30	\$3,042.20d	5.49%
	Law, JD, UMKC	Missouri	\$101.00		\$1,414.00d	\$106.00	\$1,484.00d	4.95%
		Nonresident	\$215.00		\$3,010.00d	\$226.30	\$3,168.20d	5.26%
Engineering Course Fee (assessed per credit for enrollment in engineering courses)	Law, LL.M., UMKC	Missouri	\$101.00			\$106.00		4.95%
		Nonresident	\$215.00			\$226.30		5.26%
	Medicine, MD, UMKC, Yrs 1-2	Missouri	\$157.00	\$1,256.00b	\$2,512.00f	\$165.60	\$1,324.80b	5.48%
		Nonresident	\$247.00	\$1,976.00b	\$3,952.00f	\$260.60	\$2,084.80b	5.51%
	Medicine, MD, UMC	Missouri	\$151.00	\$1,208.00b	\$2,416.00f	\$159.30	\$1,274.40b	5.50%
		Nonresident	\$239.00	\$1,912.00b	\$3,824.00f	\$252.10	\$2,016.80b	5.48%
	Medicine, MD, UMKC, Yrs 3-6	Missouri	\$151.00	\$1,812.00b	\$2,718.00f	\$159.30	\$1,911.60b	5.50%
		Nonresident	\$239.00	\$2,868.00b	\$4,302.00f	\$252.10	\$3,025.20b	5.48%
	Optometry, OD	Missouri	\$161.00		\$2,576.00f	\$169.90	\$2,718.40f	5.53%
		Nonresident	\$258.00		\$4,128.00f	\$272.20	\$4,355.20f	5.50%
	Pharmacy, BSP Yrs 1-3	Missouri	\$70.00		\$1,050.00e	\$73.80	\$1,107.00e	5.43%
		Nonresident	\$180.00		\$2,700.00e	\$189.90	\$2,848.50e	5.50%
	Pharmacy, D Pharm	Missouri	\$92.00		\$1,380.00e	\$97.10	\$1,456.50e	5.54%
		Nonresident	\$205.00		\$3,075.00e	\$216.30	\$3,244.50e	5.51%
Engineering Course Fee (assessed per credit for enrollment in engineering courses)	Pharmacy, MS and PhD	Missouri	\$85.00			\$89.70		5.53%
		Nonresident	\$197.00			\$207.80		5.48%
	Veterinary Med, DVM	Missouri	\$113.00		\$1,808.00f	\$119.20	\$1,907.20f	5.49%
		Nonresident	\$212.00		\$3,392.00f	\$223.70	\$3,579.20f	5.52%
	Engineering Course Fee (assessed per credit for enrollment in engineering courses)	UMC and UMKC	\$12.00			\$13.00		8.33%
		UMR	\$20.00			\$21.00		5.00%

Rates are for years 3-6 of 6-year program, as well as for 4-year program. Four-week term, flat rate begins at 6 credits. Ten-week term, flat rate begins at 14 credits.

Flat Rates start at:  
a - 7 Cr c - 12 Cr e - 15 Cr g - 18 Cr  
b - 8 Cr d - 14 Cr f - 16 Cr h - 20 Cr

By Michael Woodward,  
Staff Writer

On July 14, 1986, University of Missouri President Magrath presented a plan to the UM Board of Curators to raise fees for the 1987-88 school year. The plan, which called for an average 5.5 percent increase in fees for all four campuses in the UM system, was

adopted. Increases will become effective for the summer 1987 session.

The new increases are based on the student fee policy passed by the Curators last year. This policy ties fee rates to the Higher Education Price Index which generally runs 1.5 percent above the Consumer Price Index. Next year's CPI is expected to increase 4 percent.

The new plan will mean an increase

of \$2.60 per credit hour (from \$47.00 to \$49.60) for freshmen and sophomores, and an increase of \$2.90 per credit hour (from \$52.00 to \$54.90) for juniors and seniors. Additionally, Engineering Fees will rise from \$20.00 to \$21.00 per credit hour. At the UMKC and UMC campuses, the engineering fee rose from \$12.00 to \$13.00 per hour.

## Two students do summer research projects

Source: OPI

Two University of Missouri-Rolla students were among 74 students doing summer research projects sponsored by the U.S. Department of Energy's Office of Energy Research. Both students worked at Oak Ridge National Laboratory, Oak Ridge, Tenn.

Charles M. Hart, a nuclear engineering senior from New Haven, worked in the Health and Safety Division. His project involved radiological charac-

terization of contaminated Department of Energy sites. He is the son of Mr. and Mrs. Gilbert Hart of New Haven.

Jeffery J. Smith, a nuclear engineering senior from Rolla served in the Engineering Technology Division and did an economic feasibility study of the Ultimate Safe Reactor, including radiation dose evaluations. Smith is the son of Mrs. Carol Hernandez of Rolla.

During their 10-week appointments,

Hart and Smith worked with DOE or DOE contractor staff and used state-of-the-art energy technologies to develop skills and knowledge in projects relating to energy production, utilization, conservation and related social implications.

Selection for the Student Research Participation Program is competitive and open to college students who have completed their junior year and have the potential for a successful scientific career.

## AT&T announces grant to UMR

Source: OPI

The AT&T Foundation, the philanthropic arm of AT&T, announced a grant of \$225,000 to the University of Missouri-Rolla on Wednesday, September 10.

According to UMR Chancellor Martin C. Jischke, the grant will allow the establishment of an instructional emphasis program in the areas of manufacturing technology and manufacturing automation. The proposed program would involve course devel-

opment and planned electives in chemical engineering, electrical engineering, engineering management and mechanical engineering. The school graduated 600 students from these programs in 1986.

Wayne Deen, account executive for AT&T Information Systems, and Lou Stamm, account executive for AT&T Communications, made the presentation to Chancellor Jischke.

see Grant page 4



# calendar of events

## Tuesday

**Co-op Club meeting** Sept. 16, 6:30 p.m. in Room 206 of the Chemical Engineering Building. Co-ops who are interested in being officers should attend.

**Tau Beta Pi** pledges—there is a smoker tonight. You are cordially invited to attend at 7 p.m., Room G-5 H-SS.

**UMR Men's soccer**, Principia, 7:30 p.m., soccer complex. Admission charged.

## Thursday

**The War Games Association of Rolla** will meet Thursday, Sept. 18 at 8 p.m. in MCS 206. Topics include Starwind, National Guard and Diplomacy games. Anyone interested in games of any sort is invited to attend.

**Toastmasters** will meet Thursday at 4:30 in Room G-9 of the H-SS building. Everyone is welcome to our open house Sept. 18, 4 p.m. in G-5 H-SS.

**Teleconference**, "Use of Educational Technology," sponsored by the American Society for Engineering Education, 11:30 a.m.-1 p.m., candid classroom #1, ground floor, Wilson Library. Free.

**Physics Colloquium**, "KeV Particle Bombardment of Solids," Barbara J. Garrison, Pennsylvania State University, 4 p.m., 104 Physics. Free.

**UMR Film Series, After Hours**, 7:30 p.m., Miles Auditorium, Mechanical Engineering Building. Season ticket or \$3 at the door.

**M-Club meeting**, Thurs., Sept. 18 at 8 in Room CE 114 (pledges at 7:30). We ask all members to attend so that the constitution may be amended.

**There will be an IK meeting** in the Missouri Room, University Center-East, at 6:30 Thursday, Sept. 18.

## Friday

**Intervarsity Christian Fellowship** is here! Isn't it about time you found out what we're all about? Don't put it off—join us this Friday at 7 p.m. in Chem. Eng. 139.

## Saturday

**The Wargames Association of Rolla** will hold an open gaming session from 9 to 5 on Saturday, Sept. 20 in the Ozark Room, University Center-West. The public is invited to come by and see or play games.

**UMR Football**, Pittsburg State University, 1:30 p.m., UMR stadium. Admission charged.

## Sunday

**KMNR presents the Sunset Jazz Show** from 6-9 p.m. Your hosts this week will be Steve Schrammer and Helen Scannell. Tune to 89.7 on your FM dial each Sunday for the best in progressive jazz. Requests are welcome!

## Next Tuesday

**The Intercultural Club** would like to invite you to their next meeting on Tuesday, Sept. 23, 3:30-4:30 p.m. in Room 202 of the UMR library. There are no requirements to join—just take a break from the books and come for an hour of fun. Everyone is welcome!

## Noday

**Student Union Board** will be accepting directorship applications for Technical Crew and Special Events committees. Requirement: Students having at least one previous semester's participation in SUB activities. Apply in SUB office, Room 217, University Center-West. Deadline: Oct. 1.



## financial aid



**Students wishing to receive additional financial aid** (College Work Study or long-term loan) should inquire in the Student Financial Aid Office, 106 Parker Hall, anytime from Sept. 15-Oct. 3. Students wishing to be considered for additional financial aid must have an established need as determined by a 1986-87 ACT Family Financial Statement. Students with the most need will be awarded financial aid first.

**National Space Club Scholarship**. Award amount: \$7500. Eligibility: Must be a U.S. citizen, in at least the junior year, pursuing undergraduate or graduate studies in science or engineering. Must have accomplishments demonstrating personal qualities of creativity and leadership. Must have scholastic plans that would lead to future participation in some phase of the aerospace sciences and technology. Must have proven past research and participation in space related science and engineering. Personal need is considered, but is not controlling. Applicants must submit the following: Official transcript of college records; letters of recommendation from faculty; apply by letter, and provide the necessary data requested in items above. National Space Club, Goddard Scholarship, 655 15th Street NW, Suite 300, Washington, DC 20005. Application deadline: January 16, 1987.

**National Hispanic Scholarship Fund**. Award amount: Ranges from \$300 to \$1000. Eligibility: Must be a U.S. citizen of Hispanic American background. Must be enrolled and attending college full-time. Must have completed a minimum of 15 credit hours prior to submission of application. Should have a minimum of 3.0 GPA, majoring in engineering, physical sciences, computer science, mathematics or business-related fields. Both graduate and undergraduate students are eligible. Applicants must submit the following: An application form (available in the Student Financial Aid Office); an official transcript of college grades; provide evidence of financial need; provide a typed personal statement giving brief history of your Hispanic background, achievements, financial support and need, current higher education status, activities, career goals, unusual circumstances, and any other information relevant to this application; provide a letter of recommendation, preferably from a school official. Application deadline: Postmarked no later than October 5, 1986.

## Kappa Alpha members develop paint removal method

Source: OPI

The formula is a familiar one. Take a situation that needs correcting, add the ingenuity of University of Missouri-Rolla students and a solution will be forthcoming.

Such was the case when Shawn

Smith and Jason Smith, members of Kappa Alpha fraternity at UMR, came up with the idea of using high-pressure waterjets as a method of removing paint from walls.

Shawn Smith and Ed Dickherber, another member of the fraternity,

approached Neil Smith, UMR vice chancellor for administrative services, and Bob Marlow, director of physical facilities at UMR, with their proposal, and it was decided to test the idea on the pedestrian tunnel that runs under Bishop Avenue adjacent to the site of V.H. McNutt Hall.

On a Saturday during the spring semester, a group of students from Kappa Alpha together with several members of the physical facilities staff successfully removed paint from the headwalls of the tunnel, which is commonly known as the "fraternity row tube." Following that the fraternity members repainted the interior of the tunnel.

"I want to thank all of the members of the fraternity and the physical facilities staff members who participated for their help in this project," said Neil Smith. "It shows a great deal of interest in and care for the campus."

He added that other such proposals from student groups are welcome and that physical facilities would be happy to supply materials and supplies for any approved projects of this nature.

Participating in the project from Kappa Alpha were: Jason Smith, Shawn Smith, Brian Walker, Jeff Tarr, Ed Dickherber, Alan Dickherber, Paul Martin, Chris Stammer, Rick Patterson, Brian Rolli and Arnold Harness.

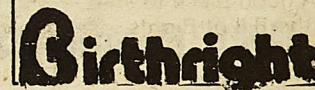
Assisting the students were Lowell Wynn, assistant director of physical facilities, and Don McCracken and Bob Lister, painters with UMR physical facilities.

## BIRTHRIGHT of Rolla is now offering FREE pregnancy testing.

If you are distressed by an unwanted pregnancy, call us. WE CAN HELP

Office Hours  
Mon., Tues., Wed.—12-3 p.m.  
Thursday—6-8 p.m.  
Friday—10 a.m.-12 noon

Come by 216 W. Eighth  
364-0066



## remember

This is a reminder that *all* submissions must be in the *Missouri Miner's* drop box by 4:30 p.m. on the Thursday before the paper comes out. The drop box is located on the first floor of the Rolla Bldg., east side.

## Missouri Miner

The *Missouri Miner* is the official publication of the students of the University of Missouri-Rolla. It is published each Tuesday at Rolla, Missouri and features activities of the students of UMR.

**Submissions for publication** must be in our drop box (first floor of the Rolla Building) by 4:30 p.m. on the Thursday before publication or may be brought to the staff meetings at 5:30 p.m. on the same Thursday.

**Advertising** information may be had by contacting the Advertising Director at 341-4235.

## The Staff

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## The Missouri Miner

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THE BEST FROM HOLLYWOOD

**COMMONWEALTH THEATRES**

**RITZ** STARTS FRIDAY

Evenings 7 & 9  
Matinee Sat & Sun 2 p.m.

**Rodney Dangerfield**

**BACK to SCHOOL**

PG-13

Special Owl Show  
Friday-Sat 11 p.m.

*Under the Cherry Moon* PG

**UPTOWN** STARTS FRIDAY

Evenings 7 & 9  
Matinee Sat & Sun 2 p.m.

One more lesson...  
**The KARATE KID**  
Part II PG

**FORUM** STARTS FRIDAY

Evenings 7 & 9:15  
Matinee Sat & Sun 2

**NOTHING IN COMMON**  
TOM HANKS  
ACKIE GLEASON ••• R

#2 Evenings 7:10 & 9:15  
Matinee Sat & Sun 2

**TOP GUN** PG

EVERYTHING YOU'VE HEARD IS TRUE

**AMADEUS**

MSB AND IRC

DATE: Sept. 19 & 20  
TIME: 6:30 & 9:00  
PLACE: ME 104  
ADMISSION: FREE  
(MUST SHOW STUDENT ID)

FIRST OF KMNR/SUB MIDNIGHT CONCERT SERIES

**The Kids Are Alright**

Starring **THE WHO**

PG

DATE: Sept. 19 & 20 PLACE: HOLSUM BLDG. 10th & Bishop  
TIME: MIDNIGHT ONLY ADMISSION: FREE  
(MUST SHOW STUDENT ID)

**KMNR** **SUB**



# comments

## Right to keep and bear arms to protect from tyranny

By Cordell Smith,  
Staff Writer

This past spring saw the enactment of the McClure-Volkmer Firearms Owners Protection Act, sponsored by Senator Jim McClure (R-Idaho) and Representative Harold Volkmer (D-Missouri). This Act, the first major overhaul of the Gun Control Act of 1968, injected new adrenalin into an old fight. Accordingly, this seems as good a time as any to consider the question of gun "control."

Actually, gun "control" is not much of an issue. It is probably safe to say that all gun owners support gun "control"—after all, without control of the firearm, one does not hit any targets. Ultimately, the real issue here is whether firearms should be in private hands.

In the past, countless reasons have been advanced for private possession of firearms. These arguments include, for example, sporting reasons (some shoot for sport, some collect firearms as a hobby) as well as self-defense reasons. While these are entirely legitimate reasons, and may serve as effective arguments against the confiscation of firearms, they usually cannot serve as effective arguments against the registering of firearms and the licensing of owners. In order to evaluate calls for such registration and licensure, one must therefore examine the intent of the authors of the Constitution.

### View From the Founders

A good place to start is with the Second Article of the Bill of Rights, commonly referred to as the Second Amendment to the Constitution:

A well-regulated militia being necessary to the security of a free state, the right of the people to keep and bear arms shall not be infringed.

Already we have confusion. Without attempts to discover what the Founders meant by this provision, a reader is baffled by an apparent contradiction: one the one hand, the first clause mentions

"the militia," and—on the other hand—the second clause refers to the right "of the people" to possess firearms. So, we must ask, is there an individual right to possess arms, or is the right limited to a collective one reserved to a select group such as the National Guard? To discover the answer to this question we must unearth the meaning of the word "militia." Does it refer to the National Guard?

No, it does not, as Congress itself stated when it organized the National Guard. In creating the Guard, Congress wanted to establish reserve military units that would not be limited by Constitutional strictures on Congressional use of the militia. (Under Article I, Section 8, Clause 15, Congress may call forth the militia for only three purposes: (1) "to execute the laws of the Union," (2) to "suppress insurrections," and (3) to "repel invasions." The National Guard has other purposes—being as it is a reserve force; therefore, it cannot be the "militia.") In fact, Congress stated specifically that it organized the Guard under the power "to raise and support armies" (Article I, Section 8, Clause 12)—not under the militia-related powers. Clearly, the National Guard is *not* the militia.

Instead, "militia" refers to a body of people at large. (This is recognized even by current law, where the term is "unorganized militia." Title 10, Section 311(b) of the U.S. Code) The main reason the Founders wanted the people to possess arms was to provide a means of keeping the Federal Government, strengthened dramatically by the Constitution of 1787, from becoming tyrannical. As long as the people keep and bear arms, the government will exercise self-restraint, because it knows the people would resist tyranny, and would have the means to do so.

To see that this was what was intended, listen to James Madison, who wrote in *The Federalist Papers* (Number 46) of "the advantage of being armed, which the American people possess over the people of almost every other nation." Madison urged

that all citizens possess the means of defending their rights against "standing armies," which under tyrannical systems become agents of despotism. As evidence that the unorganized militia could be successful against tyranny, Madison pointed across the Atlantic:

Notwithstanding the military establishments in the several kingdoms of Europe, which are carried as far as the public resources will bear, *the governments are afraid to trust the people with arms.* (Federalist 46)

### View From the Court

This explains why the slaves in the old South were kept disarmed by the Slave Codes, and—after Mr. Lincoln's War—by the Black Codes. Interestingly, however, judicial interpretations of these laws served only to prove over and over that the Second Amendment guarantees a right to possess arms to every citizen of the United States. For example, in the notorious case of *Dred Scott v. Sandford* (15 L. Ed. 691 et seq., 1857), in which the Supreme Court made its noxious "pro-choice" decision regarding slavery (by defining black slaves as property rather than citizens entitled to legal protection), the Court listed what rights blacks would possess if they ever were granted citizenship:

It would give to persons of the negro race... the right... to keep and carry arms wherever they went. (15 L. Ed. 705)

By this point, then, two things should be clear. First, the right to keep and bear arms is a right of individuals—not of a select group. Second, the primary purpose of private arms is to prevent tyranny and slavery (as the black slaves found out the hard way). Registering arms—including handguns—with the government against which they were intended to protect the owner's rights would be like registering one's diamonds with the Mafia. That is why registration and licensure must be opposed, and is why passage of McClure-Volkmer represents a major step toward returning to Constitutional principles.

## Equinox viewing to be held

Source: OPI

The autumnal equinox is Tuesday, Sept. 23, and the equinoctial sunrise and sunset may be viewed at the University of Missouri-Rolla's replica of Stonehenge, which is located near Highway 63 South and St. Patrick's Lane.

According to Dr. Joseph Senne, UMR professor emeritus of civil engineering who did the astronomical calculations for UMR Stonehenge, the equinoctial sunrise will be at 6:55 a.m. and the equinoctial sunset at 7:02 p.m. The official time for the equinox (when the sun crosses the equator) is 2:59 a.m.

"The true position of sunrise can be

observed by standing on the UMR Stonehenge marker in the center of the monument and sighting above the notch on top of the east compass stone, while the true position of sunset can be observed by sighting above the notch on top of the west compass stone," Senne explained.

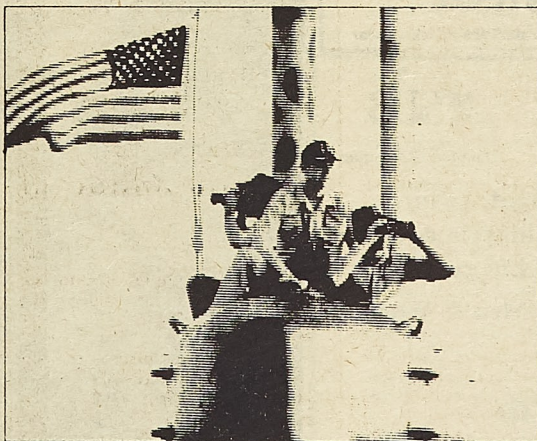
He added that "because of the position of several buildings the actual sunrise will be seen a few minutes later than the official time and about two degrees further south."

UMR Stonehenge was chosen one of 1984's 10 Outstanding Engineering Achievements by the National Society of Professional Engineers.

### WANTED... PARTY-PIC PHOTOGRAPHER

If you own a 35mm camera with flash attachment, and if you are outgoing and good with people, and you would like to supplement your income shooting pictures on and around campus, we need you! Fun work, good incentives, and light hours. No selling involved. Send a brief resume to: Hocus Focus Photo, P.O. Box 3485, Tulsa, OK 74101. Or call (918) 584-4482.

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While this may sound like a lot, if you have what it takes, you're worth every cent of it. With one year of Calculus and Physics and a minimum GPA of 3.0 (3.3 for juniors) you could qualify. Sign up now for interviews being held at the Buehler Bldg. placement office on 24, 25 September.

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## Liberal Arts Week September 22-26, 1986\*

Monday, September 22, 1986

"The SACROSANCT" by Edward E. Boccia, a gift from Morton D. May to the University of Missouri-Rolla, will be available for viewing all week in the Humanities-Social Sciences Building between 8 a.m. and 4:30 p.m. The painting is located in the north stairway to the top floor of the building.

Emma Stoll, water color artist, will be on the mall between the Humanities-Social Sciences Building and the Mathematics-Computer Science Building painting a picture of the Humanities-Social Sciences Building, Monday, Wednesday and Friday morning.

Leo J. Soisson, Resident Artist at UMR, will discuss his art between 2 and 4 p.m. in the lobby of the University Center-West. This exhibition will be available for public viewing between the hours of 8 a.m. and 4:30 p.m. Tuesday, Wednesday and Thursday. It will close at 12 noon Friday, Sept. 26, 1986.

*Southwinds*, a publication of the students of art and literature, will be on sale all week in front of the University Center-West between 8 a.m. and 4:30 p.m.

Tuesday, September 23, 1986

UMR Collegium Musicum under the director of Joel Kramme will be performing on the mall between 12 and 1 p.m.

Ellen Gray Massey, editor of *Bittersweet*, a cultural journalism quarterly about the Ozarks, will lecture on the topic "Ozark History Customs, Folklore" at 3:30-4 p.m. in the Missouri Room of the University Center-East.

Wednesday, September 24, 1986

Student authors will read selections from their works published in *Southwinds* at 3:30-4:30 p.m. in the Mark Twain Room of the University Center-East. *Southwinds* is a UMR student publication of student art and literature.\*\*

Thursday, September 25, 1986

The English Club will hold a book sale from 8:30 a.m. to 4:30 p.m. in front of the University Center-West.

Galbraith and McCann will perform in workshop Ozark folk fiddling music 3-4 p.m. at the Hockey Puck. (In case of rain they will be in the Missouri Room.)\*\*

Free popcorn and soft drinks will be served by English Club and *Southwinds* students dressed as their favorite characters from 3-4 p.m. at the Hockey Puck.\*\*

Campus Performing Arts presents Galbraith and McCann, Ozark Folk Fiddling, at 8 p.m. in the Cedar Street Center.

\*All events are open to UMR students and the public.

\*\*Refreshments will be provided.



Show a valid student I.D.

**20% off any eat in or carry out pizza**

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**Pizza inn**  
DELIVERS IT ALL™

Not valid with any other offer or buffet. Offer good for the 1986-87 school year.

## TRIATHLON!

CSUB

Outdoor Recreation

★ Oct. 4th

500 yd. swim

9 AM

16 mi. bicycle course

UMR Pool

5 km run

Individual & Team Divisions For Men & Women

Admissions:

Students—free

Non-students—\$5<sup>00</sup> fee

Prizes: T-shirts for all entrants

plaques

water

Trophies

bottles

Sign-up sheets, rules, maps at SUB office (217 U.C.W.),

Key Sport, and Pedal Power

★ Please note the new date is Oct. 4th

## Educational Assistants wanted

Submitted by MSM-UMR  
Alumni Association

The MSM-UMR Alumni Association is looking for students wishing to participate in its Educational Assistant Program. Through this program, a student performs scholarly research and work under the supervision of a faculty member. The Alumni Association pays the student for his or her work using a

sliding scale beginning at \$3.45 an hour. The actual rate paid varies depending upon both the project's complexity and the student's experience.

Students wishing to participate in the program can obtain an application from the Alumni Association's campus office at 101 Harris Hall. The application must be completed by the supervising faculty member and must be

returned to the Alumni Office by Sept. 17, 1986.

Projects have varied from year to year and usually are connected with some aspects of the student's major field of study. Past projects have ranged from computer enhancements of radar displays to cataloging the music department's extensive sheet music collection. The selection committee is always interested in new fields of study.

## All invited to Industry Day

By Missy Hagler  
Staff Writer

Students and faculty are invited to attend the 23rd annual UMR Industry Day Tuesday, Sept. 23, at the University of Missouri-Rolla.

About 50 industries and professional and governmental agencies will provide displays of their products and services. Representatives of each of the exhibitors will be on hand to answer questions and discuss employment opportunities with students and faculty.

Exhibits can be viewed from 10 a.m. to 4 p.m. in the Gale Bullman Multipurpose Building, Highway 63 and 10th Stret. There is no admission charge. Door prizes will be awarded throughout the day.

## Rae Street to speak on peace

Submitted by Rolla Peace Issues Group

A woman dedicated to removing Cruise missiles from Great Britain is bringing her campaign to Rolla.

Rae Street is a leading member of the Campaign for Nuclear Disarmament in Britain and a supporter of the Greenham Common Women's Peace Camp. The encampment is located 60 miles west of London near where the nuclear-armed Cruise missiles were first deployed in Europe.

Her speech, titled "On Being a British Peace Woman," is set for 7:00 p.m. Sept. 17 in the meeting room of the Rolla Public Library. The program is

sponsored by the Rolla Peace Issues Group and is open to all at no charge.

Ms. Street and others at the peace camp believe the Cruise missile only adds to the arms race and makes their nation a target while contributing nothing to its defense.

She is on a two-week speaking tour throughout the Midwest sponsored by the Greenham Women Against Cruise Missiles.

A brief business meeting will begin the program. Reservations for dinner with the speaker before the program are available by calling 341-2464 or 364-7051.

## Grant

from page 1

"This type of grant reflects AT&T's concern for manufacturing productivity," Deen said. "It also allows the School of Engineering at UMR to develop the kinds of curricula in manufacturing technology that will prepare future engineers for the real world of today's factories either at AT&T or elsewhere."

"This grant also represents AT&T's ongoing concern for quality educational programs at institutions across

the country and more importantly emphasized AT&T's confidence in the University of Missouri-Rolla," Stamm said. "It's an exciting program and I'm also pleased that UMR was singled out as a recipient."

In remarks following the presentation from AT&T, Chancellor Jischke said, "AT&T's confidence in UMR's ongoing commitment to engineering excellence is reflected in this substantial grant. On behalf of the campus, our faculty, and the ultimate recipients

of the grant, our students, I want to thank AT&T for its generosity and support."

"Our students will not only gain knowledge and experience from this program, they will share in teamwork which will assist them in developing 'people skills' so necessary for the success of any engineering endeavor."

"I would like to commend AT&T, as a concerned corporate citizen, for recognizing these needs."



C. M. Melliar-Smith(left), Director of Engineering for the Kansas City Works, Technology Systems of AT&T, presents a \$225,000 check from the AT&T Foundation, the philanthropic arm of AT&T, that will allow the establishment of an instructional emphasis program in the areas of Manufacturing Technology and Manufacturing Automation at UMR, to UMR Chancellor Martin C. Jischke. (Photo by OPI)



# letters to the editor

## More on pornography in the UMR classroom

Dear Editor,

Your response in last week's *Miner* to the person who was offended by *Lolita* was interesting. I agree that the writer's definition of pornography was vague. But what I found interesting was the lack of understanding in your response.

The Supreme Court has ruled that, in a sense, obscenity is in the eye of the beholder, in this case the local society. That means any town can in effect ban whatever the people of that town find offensive. By necessity, the definition of obscenity is vague. It would be impossible for anyone to state exactly what is obscene and what is not. The law would be thousands of pages long and totally unmanageable. So we are stuck with vagueness.

You also said that the Constitution guarantees the right to freedom of expression. That is true. However, the Supreme Court has ruled that pornography is not protected under that right. So when you or Hugh Hefner claim constitutional rights to pornography you are perpetrating a lie that, unfortunately, many believe.

I also believe that your suggestion that the letter-writer change sections or drop the course is missing the real issue involved. No one should have to drop a class because of a book that boasts "explicit erotic emotion or some overt erotic action" on almost every page. I would hope that the professor would allow the student an alternate choice of reading. However, I do find it distressing that the professor finds American literature so bankrupt of quality that he feels the need to use something so pathetic as a tale of incest.

Respectfully submitted,

Fred Worth

Dear Editor,

Having just read the "Letters to the Editor" of the 9 September issue, I feel I must try to clarify the "Moral Minority Member's" point.

In your response, you address the issue of pornography only fleetingly, and then, only in a general way. You cite such examples as Shakespeare and Chaucer and, let's face it, there is some pretty questionable stuff in both authors' works. You say that you are familiar with the subject matter, but are you REALLY aware of what this book puts forth? Let me enlighten the general audience with a brief synopsis.

*Lolita*, as she is called, is the object of her step-father's lust for young flesh (very young). *Lolita* eventually learns to perform "favors" for her step-father in order to gain her allowance. The preceding is only the most general of descriptions, but I feel it gets "Minority's" point across well.

In your reply you seem to debate the "pornographicity" of the novel *Lolita*. Let's see if we can't clarify the definition a bit:

**Pornography**—(n) the discussion of prostitution; obscene writing  
**Obscene**—(adj) foul, disgusting; lewd, indecent

**Lewd**—(adj) lustful, unchaste, debauched

**Indecent**—(adj) offensive to common modesty or propriety

**Chaste**—(adj) modest; virtuous; virgin; pure in taste and style

**Debauched**—(adj) corrupted

I have only gone into such detail to illustrate a point. If the above definitions (from Webster's Dictionary) are discounted because it is not convenient to use such definitions, where would the English language be? Surely

you, as an editor, can appreciate the need for standard definitions. From those definitions, one can indeed ascertain logically that *Lolita* is indeed pornography by a set of standard definitions.

For *Lolita* to be pornographic, it must be obscene writing. Well, the writing part has been established, but what about obscene? For something to be obscene, it should be at least lewd and indecent. As for indecency, surely the majority of people do not regard child abuse as proper, hence *Lolita* is indecent by definition. Lewd is defined as lustful, unchaste and debauched, and *Lolita* is certainly lustful in the purest sense of the word: it is full of the lust of an older man for his 12 year old step-daughter. Since unchaste is the state of not being chaste, and being chaste is defined as being virgin, and since *Lolita* is obviously not a virgin anymore, one part of the definition of lewd is satisfied. Debauched is the state of being corrupted, and since *Lolita* has been corrupted into doing "favors" for an allowance, the definition of debauched is also satisfied. Thus, *Lolita* can now safely be called pornography without fear of a vague definition.

To illustrate further, I quote your reply:

I agree that the sexual exploitation of people in this country is a problem. . . . If people are really concerned about the problem of pornography, they should be putting their efforts into rescuing the children and others who have been kidnapped by (or have run away from home and into the clutches of) pimps and pornographers, not wasting their efforts on banning controversial books.

*Lolita*'s step-father is the only family she has left. As a result, she travels

around the country with him for lack of other family, and thus he has technically kidnapped her, which is one of the points you made in the quote above. She is also, you'll recall, eventually paid an "allowance" as a reward for having "favored" him sufficiently, thus leading to basic prostitution. It seems from the quote above that while you have a strong disapproval of the actual act, you see nothing at all wrong with the printing of accounts of such behavior. In that case, you are guilty of harboring a double standard, m'dear.

I would now like to address your adamant defense of the Freedom of Expression, and as a result, the Freedom of the Press. Having been in a position of editorship previously, I understand the dilemma you, as editor of the *Miner*, face. I can see that anything that interferes with the Freedom of the Press, such as banning pornography, could pose a threat to newspaper journalists in general, and eventually, to the *Miner* in specific. NO writer likes to have his/her works banned on the whimsy of someone else, but at the same time books which may contribute to, or serve as inspiration for, continued episodes of child pornography and child prostitution are those which I feel deserve serious reconsideration as classroom material.

While we're on the subject of ethics, it disturbs me just the teensiest bit that an ad for mail order Research Papers appears just under the conclusion to your reply. It kind of shakes my faith in the ethics of an editor when he/she allows an obviously unethical company to advertise in the *Miner*. In case you're wondering about my definition of ethics, I have one here from Webs-

ter's dictionary:

**Ethics**—(n) moral principles  
**Moral**—(adj) of or relating to character or conduct; conformed to or directed towards right; capable of knowing right and wrong

Now I obviously cannot vouch for anyone but myself, but I do believe that presenting as one's own that which is not one's own is pretty well on the wrong side of things (I think that fits in somewhere with something about false witnesses, just to keep up with biblical references). There are those, and quite possibly you are one, that would counter that students can and do use such pre-written papers for research purposes only. While I'm sure that may be true in several isolated cases, I don't buy the supposition that this is the norm as opposed to the exception. If anyone, for the merest second, believed that this company existed as a means of supplemental research, I would term that person as slightly off. The ad even states, "Custom research also available—all levels." This company is merely trying to gain business from lazy or disorganized students who have no qualms about turning in 1 of 16,278 pre-prepared reports as a substitute for their own work. I am not, as it might seem, trying to judge those who might purchase such papers, I just feel it a small insult to my intelligence, and to the general intelligence of the students here at UMR. Also, judging from the size of the advertisement, it cannot be generating a great amount of revenue for the *Miner*, and could possibly be left out. Again, the good of the many outweighs the good of the few or the one.

If I personally offended you, I am sorry.

A Concerned Former Editor  
(not of the *Miner*)

## and the Editor's response

Dear Mr. Worth and Former Editor:

I would like to address both of your letters in this reply. I will begin by addressing your letter Mr. Worth.

The first thing I would like to say is that I agree with you on one point. The determination of something as pornographic or not pornographic is "in the eye of the beholder." By admitting that "it is impossible to state exactly what is obscenity and what is not, you admit it is a **totally subjective** matter. I feel that people who do not find *Lolita* to be pornographic have just as much right to read it as those who do see it as pornography have the right to refuse to read it. If the UMR campus as a whole finds *Lolita* to be pornographic it can do with it what it wishes, but the point I am trying to make is that as long as there are people who do not consider it pornographic those people should have the right to read it if they wish.

And as for your comment "I would hope that the professor would allow the student an alternate choice of reading," that issue was addressed in my letter. The fact is that **NO ONE**, not even "Minority" even approached the professor on the topic much less ask if an alternate selection could be read. And in my opinion that should have been the first logical step to take.

Now, I would like to address "Former Editor's" letter. As I said in

the last letter, I have not read the book myself but I am aware of the subject matter. Being a responsible Editor I did some research on the topic before I wrote about it.

Second, while your definition of pornography is more extensive, it is equally as subjective as "Minority's" definition. Again, by your definition as well, even the Bible could be considered pornographic since it discusses prostitution—temple harlots, and the prostitute who washed Jesus' feet to whom he said "Thy sins are forgiven." (LUKE 7:37-50)—and unchaste people—the adulteress who the scribes and Pharisees were going to stone to which Jesus said "He that is without sin among you, let him first cast a stone at her." (JOHN 8:7), or the woman at the well in Samaria who had five husbands and was living with a sixth man (JOHN 4:17,18). I am a Christian, I read the Bible regularly and I obviously do not believe that the Bible is pornographic. I am merely using it as a reference to illustrate how ridiculous it is to try to make an **objective** definition of anything as pornography because by **any and all** definitions I have encountered for pornography it is purely a matter of **personal opinion**. And I doubt that you will be able to find where it has been ruled that the U.S. Constitution does not protect our right to having personal opinions.

One last point I would like to address again concerning the topic is that I too feel that there is a problem with pornography in our country. There are many things I feel are sick and perverted (such as "kiddie porn.") that something should be done about. But the point that I am trying to make is there are many things (such as *Lolita*) that I do not find to be pornographic someone else does (obviously), and I am sure there are things that I consider pornographic which others do not. Therefore, my point is: one **cannot** objectively define pornography because it is a matter of such subjectivity and individual opinion. In addition, I wish to stress that I do not feel that crusading to ban books is hitting anywhere near the heart of the problem.

As for the quote you used from my letter about putting our efforts into saving the children and others who are being exploited, you have obviously misunderstood my point. I realize that *Lolita*, the character, is a child who is being sexually abused but the point is that *Lolita* is only a character—a fictional character. She is not a real, living person whose life will be destroyed by what is occurring. She exists only in the novel. My question is: by banning this book from the college classroom, how many real-life *Lolitas* will it rescue from abusive parents, how many people will it get off the streets

and out of prostitution, and how many children will it rescue from "Kiddie-porn"? The answer: **not one in any category!** We as a society close our eyes because we don't want to believe it is really happening in our country, in our hometown and maybe even in our very own homes. So rather than facing and trying to solve the real problem we become like Don Quixote fighting wind mills by banning books while the real problem not only still exists but worsens!

Furthermore, you are correct in saying that I feel the act is wrong but the printing of accounts of it is all right, but I do not see it as harboring a double standard. Should newspapers themselves be banned because they run stories (or letters such as these) that discuss prostitution, incest, rape, etc.? (Did you yourself as an editor suppress stories of this nature?) I feel that if a written account (be it newspaper or novel) of such horrors increases our awareness of the problems enough that we act on them and save some real-life *Lolitas* then it has served an priceless purpose!

Also I do not feel that simply by reading an account of incest that someone would suddenly run out and commit incest. Anyone who sexually abuses or exploits a child has problems far deeper than banning a book will solve.

If I have now not addressed the problem of pornography sufficiently to please you, I apologize. But, I do not feel that determining whether *Lolita* is pornographic or not is a very important issue when the horrors that offend you so much in the novel are occurring around us in real-life every day.

In closing, I would like to address the problem with the advertisement for research papers which followed my response in last week's *Miner*. It really is not *Miner* policy to run such an ad. Upon investigation into this matter, I discovered that the person who allowed the ad to be run had recently read several notices calling for research papers to be submitted. When he saw the title on the research papers ad, he assumed it was just another such ad. Somehow, this error made it past the rest of the staff.

I know that you, as a former editor, realize that these things occasionally happen. In the future we will keep a sharper eye out for such unfortunate occurrences.

I hope now that I have sufficiently covered the topics raised in these letters and I too hope that I have not offended anyone personally; that was not my intent.

Sincerely,  
Mella J. Baxter  
Editor-in-chief



## More letters to the Editor

Dear Editor,

I was most interested in Cordell Smith's (9/2/86) analysis of the language problems inherent in political debate, as his views on this subject somewhat parallel my own. Shifting the debate from "liberal" vs. "conservative" to more incisive terminology is long overdue. "Individualist" vs. "collectivist" is perhaps not the ultimate dichotomy in political discussion, but it is an improvement.

While "conservatives" do often give lip service to rugged individualism and free market competition, the fact remains that we do not live in a free economy. Instead, the largest firms (which are, in a collectivist fashion, growing ever larger) are routinely subsidised by the government (read taxpayer), which is itself approaching the point of mammoth collectivism.

My point here is that both Republican and Democratic politicians are interested in extending governmental influence and control (i.e. collectivism), and differ primarily in the justification and directions for such expansion. This is natural enough, as any institution (or person) will act in such a manner as to perpetuate its existence and extend its control over the environment (be it political, economic or natural).

An example of a "conservative," with an anti-individualist bent is found in Justice William Rehnquist. Mr. Rehnquist said in a 1980 speech, "I would like to 'debunk' two popular clichés about the United States Constitution and the Supreme Court. The first is that the United States Constitution can be fairly described as a charter which guarantees rights to individuals

against the government. The second is that the Supreme Court in its decisions 'upholds' the Constitution only when it decides a constitutional claim in favor of an individual." He goes on to say that the original purpose of the constitution was "to create a limited national government, which was empowered to curtail both state's rights and individual freedoms." (*Washington Post*, 7-28-86).

These are hardly the words of an avid individualist. The same *Post* article (which was certainly not critical of Rehnquist) said of him, "In almost all cases when government authority confronted individual liberties, he sided with the government. When the will of the majority faced off against a minority's rights, he was predictably with the majority."

Of course, finding a liberal politician who would champion individualist causes in a substantive way is extremely difficult. This points up the essential similarities of our two major parties, which outweigh their superficial differences. Indeed, a politician with "radical" (or individualist) philosophies who gains office is ostracized, and given no real power to effect change. The political system and governing structures themselves are, of course, "conservative" in the dictionary sense of the term.

If Mr. Smith is indeed on the side of individual rights in the face of rampant collectivism, I heartily congratulate him, but must caution him that these views are quite in opposition to the prevailing worldwide climate of increasing control by state, financial and corporate institutions.

Barry Bookout

Dear Editor,

A few disturbing items have come to my attention. I feel that the University population needs to hear about facts that will have wide ranging affects on student life.

I'm sure everyone has heard or read about the tax reform that is taking place at a national level. This piece of legislation is still being written by the Joint Committee of Congress, and most analysts say that it will pass with little opposition. The idea seems sound. Simplify taxes. However, very few people know of the affects that it will have on students.

First of all, anyone who is collecting scholarship, fellowship, grant, or stipend money above and beyond the amount necessary for tuition, fees, and incidentals, is about to be taxed for it. Regardless of whether you file independently or under your parents, this money will be considered income and will be taxed. This will have a profound impact on students who may be receiving a "full ride" scholarship, or are using money to pay for room and board. And yet, few students fight.

Second, the new tax laws will eliminate many investment shelters. The theory is to eliminate these loopholes,

then lower individual taxes to make up for it. Not only does this put the average graduating engineer in the same bracket with the likes of Lee Iacocca, but it also removes all of the benefits that those shelters were providing. The most direct result will come in real estate. Many investors operate rental property at a net loss as a tax write-off and a protection of income. When the new law is enacted, this shelter will disappear. The immediate result, say real estate sources, is a 30% raise in rent, making the property investment profitable. Good for the dorms, bad for students. And yet, few students fight.

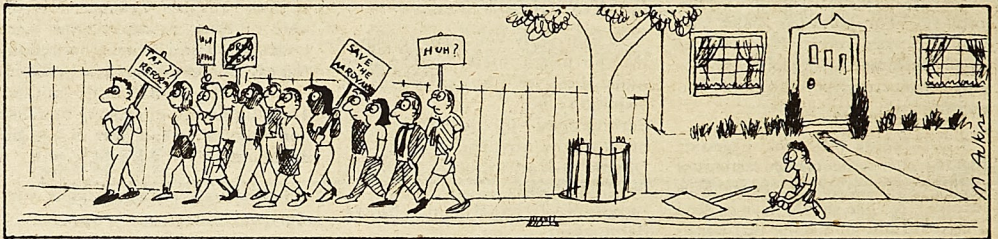
One final direct result of this legislation is a reduction of corporate giving. The gifts that this University receives will be taxed. This new law discourages donation of any kind, since it is no longer a deduction. Since this institution depends heavily on private sector giving, this campus is threatened to lose money. Add to this blow the fact that Congress has cut the National Science Foundation's research budget. UMR has active about a million dollars in NSF funds. And yet, few students fight.

Add to the tax issue concerns over the University of Missouri's new policy

of drug testing for athletes. This policy is of questionable legality, incinges on personal rights, and is not always of drug abuse. In fact, Nancy Reagan proved positive for barbiturate use because of an antihistamine that she was taking. Concerns of rising tuition, concerns of declining campus, and concerns of professor quality have been voiced before. But still, few students fight.

Well, it's time that students started taking an interest, no, an active part, in the governmental issues that affect us, issues that are being raised with each day. Students can have an impact on government, and that is my job. I plan to organize lobbying drives, letter drives, luncheons with legislators and more in an effort to inform the students and influence the government. We are already working with the other campuses of the University of Missouri to affect change. If you are as fed up as some, you will want to work for a unified lobbying coalition, too. Don't just complain, do something about it. Well, do something legal and peaceful about it. Watch this space for more.

Sean Foote  
Legislative Action Chairman  
UMR Student Council



# Frito-Lay

Find out how you can have an impact on the future of Frito-Lay.

Visit with us:

Date: Tuesday, Sept. 23

Time: 7:00 p.m.

Place: Mining Building 107C

Graduates in all areas of the technical arena can find challenging opportunities for career growth at Frito-Lay, with immediate responsibilities that most engineers don't experience until they've been on the job for several years.

At Frito-Lay, you'll find an innovative team approach to problem solving in an organization that is open to new ideas—technical or otherwise. You'll work with members of other functional groups with the chance to learn several areas of the organization. You'll be challenged technically, and challenged as a manager. Your contributions will be rewarded through high visibility and increased responsibility.

Frito-Lay Inc. is the largest division of PepsiCo Inc. and a world leader in the \$20 billion snack food industry. The key to Frito-Lay's past success has been its people. And they are just as important to our future.

Manufacturing Engineering, BS degree required. Preferred majors include mechanical, electrical and chemical engineering.

Manufacturing engineers are directly involved in providing solutions to plant engineering needs at Frito-Lay manufacturing facilities. Entry-level assignments provide engineering project responsibility with subsequent exposure to line supervision. You will have the opportunity to develop both your technical and managerial skills, which will enable you to progress to a number of alternative roles, such as Plant Engineer, Headquarters Technology Engineer or Plant Manager.



World Class . . . And Worlds Apart.  
Frito-Lay is an equal opportunity employer.



# placement

## permanent

Week of September 29-October 3, 1986

**SIGNUP LOCATION:** Basement of Buehler Bldg.  
9th & Rolla Streets

**SIGNUP HOURS:** 8:00-10:30 for AM Interviews  
1:00-3:00 for PM Interviews

**NOTE:** STUDENTS MUST REGISTER WITH CAREER DEVELOPMENT PRIOR TO SIGNING UP FOR INTERVIEWS. Please check with Career Development, 2nd Floor, Buehler Bldg., for information and forms.

**HUGHES AIRCRAFT CO., Los Angeles, CA**

Interviewing DECEMBER 1986 grads with BS/MS/PhD in EE, Computer Science, Physics, or Math for Space & Communications Group, Denver, CO. Detailed job description will be available at time of signups. U.S. CITIZENSHIP IS REQUIRED BECAUSE OF GOVERNMENT CONTRACTS.  
**JOB LOCATION:** Denver, CO  
**INTERVIEWER:** unknown  
**INTERVIEW DATE:** Monday, Sept. 29, 1986  
**NUMBER OF SCHEDULES:** 1  
**PRIORITY SIGNUP:** Friday, Sept. 12, 1986  
**REGULAR SIGNUP:** Monday, Sept. 15, 1986

**ANHEUSER BUSCH CO., INC., St. Louis, MO**

Interviewing MAY 1987 grads with BS in ME and EE for Corporate Engineering. U.S. CITIZENSHIP IS REQUIRED.  
**G.P.A. REQUIREMENT:** 2.8  
**JOB LOCATION:** St. Louis, MO  
**INTERVIEWERS:** Charles DiMercurio, Kathy Brumitt, Joseph Abernathy & Robert A. Powell  
**INTERVIEW DATE:** Tuesday, Sept. 30, 1986  
**NUMBER OF SCHEDULES:** 2  
**PRIORITY SIGNUP:** Monday, Sept. 15, 1986  
**REGULAR SIGNUP:** Tuesday, Sept. 16, 1986

**NOTE:** (1) SCHEDULE—approx. 14 interview openings depending on beginning & ending times of interviews; 8 interview openings in the AM; 6 interview openings in the PM

**ANHEUSER BUSCH CO., INC., St. Louis, MO**

Interviewing MAY 1987 grads with BS in ChE for Corporate Engineering. U.S. CITIZENSHIP IS REQUIRED.  
**G.P.A. REQUIREMENT:** 2.8  
**JOB LOCATION:** St. Louis, MO  
**INTERVIEWER:** Ronald Kratzer  
**INTERVIEW DATE:** Tuesday, Sept. 30, 1986  
**NUMBER OF SCHEDULES:** 1  
**PRIORITY SIGNUP:** Monday, Sept. 15, 1986  
**REGULAR SIGNUP:** Tuesday, Sept. 16, 1986

**CATERPILLAR INC., Peoria, IL**

Interviewing DECEMBER 1986 or MAY 1987 grads for the following schedules:  
2.8 G.P.A. REQUIRED: ALL SCHEDULES  
**ENGINEERING-RESEARCH-CIMTECH-TECH FACILITIES:**  
BS/MS in EE or ME; EE's interested in electronic design, micro-processor applications and/or control system development; ME's interested in control systems, analysis, dynamics, design & development; Limited need for EE interested in AC generator design, DC motor design and power semiconductor controls.

**MARKETING:**

BS/MS in CE, EE, ME, MetE, or Mining Engineering

**COMPUTER INTEGRATED MANUFACTURING**

BS/MS in EE, ME or Met E

**DATA PROCESSING:**

BS/MS in Computer Science

**MANUFACTURING & MATERIALS ENGINEERING:**

BS/MS in ChE or Met E

**JOB LOCATION:** Initially Peoria, IL area with possible placement worldwide

**INTERVIEWERS:** unknown

**INTERVIEW DATES:** Tuesday, Sept. 30, 1986  
Wednesday, Oct. 1, 1986

**NUMBER OF SCHEDULES:**

2: Engr. Research on Sept. 30 & Oct. 1  
1: Marketing on Sept. 30 & Oct. 1  
1: Computer Integrated Mfg.: Sept. 30 & Oct. 1  
1: Data Processing: Sept. 30  
1: Mfg. & Materials Engr.: Sept. 30 & Oct. 1

**PRIORITY SIGNUP:** Monday, Sept. 15, 1986

**REGULAR SIGNUP:** Tuesday, Sept. 16, 1986

**Note:** U.S. CITIZENSHIP OR PERMANENT VISA IS REQUIRED ON ALL CATERPILLAR INC. SCHEDULES.

\*CE's MAY SIGN ON MORNING ONLY SCHEDULE OF OCT. 1

**INTERNATIONAL PAPER CO., Mobile, AL**

Interviewing DECEMBER 1986 or MAY 1987

grads with BS in ME, EE or ChE for

Process Engineering, Plant Engineering,

or Mfg. Engineering. U.S. CITIZENSHIP IS

REQUIRED.

**G.P.A. REQUIREMENT:** 2.7

**JOB LOCATION:** Southeast, Southwest, Northeast

or Nationwide

**INTERVIEWERS:** unknown at this time

**INTERVIEW DATE:** Tuesday, Sept. 30, 1986

**NUMBER OF SCHEDULES:** 2

**PRIORITY SIGNUP:** Monday, Sept. 15, 1986

**REGULAR SIGNUP:** Tuesday, Sept. 16, 1986

**MCDONNELL DOUGLAS CORP., St. Louis, MO**

Will interview DECEMBER 1986 OR MAY 1987 grads with

BS in all Engineering degrees and Computer Science.

U.S. CITIZENSHIP IS REQUIRED.

**JOB LOCATION:** St. Louis, MO

**INTERVIEW DATES:** Tuesday, Sept. 30, 1986

Wednesday, Oct. 1, 1986

**NOTE:** ALL INTERVIEWS AND SIGNUPS FOR MCDONNELL

DOUGLAS WILL BE HELD IN CENTENNIAL HALL.

**HOURS:** 12:00-5:00 p.m.: Sept. 30, 1986

8:30 a.m.-4:30 p.m.: Oct. 1, 1986

**STUDENTS ARE REQUIRED TO BRING SEVERAL TRANSCRIPTS AND RESUMES TO OPEN HOUSE**

see Placement page 19



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Se

By Mike Gros  
Staff Writer

This past S  
Park, the St.  
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Sig Tau's Mik  
Carry.(Photo b



# features

## Septemberfest a Success in '86

By Mike Gross  
Staff Writer

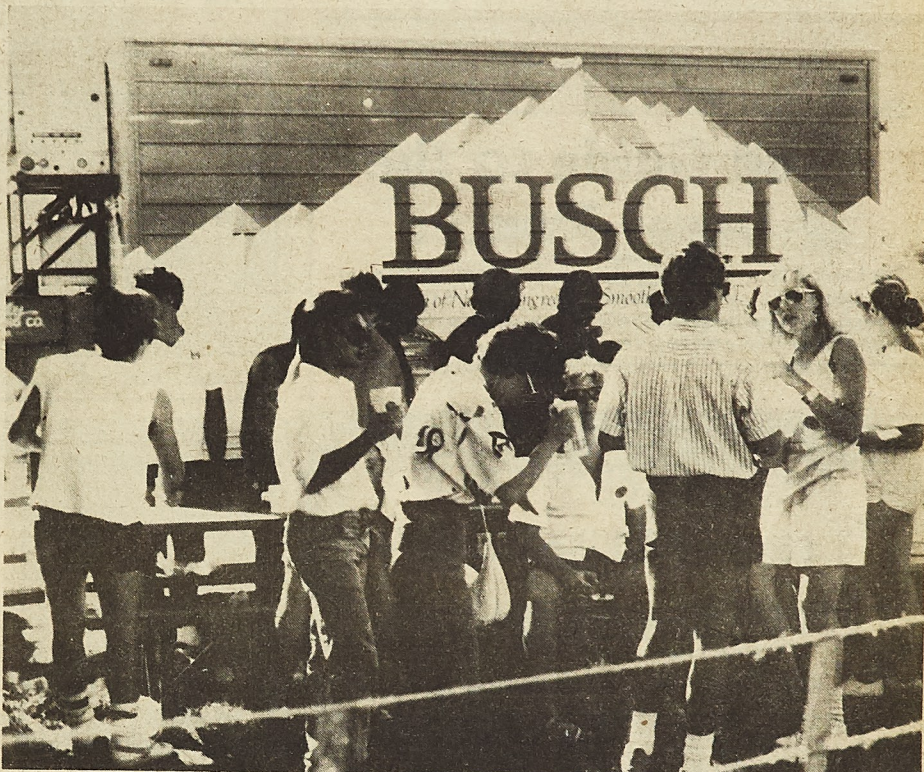
This past Saturday in Lions Club Park, the St. Pat's Board sponsored Septemberfest 1986. . . The Green Side of the Moon. This ninth annual event lasted from 12:00-4:30, and it featured live entertainment by "Diamond," and, of course, lots of beverages which were supplied from the area's local distributors. The buses, filled with festive party-goers, began arriving in the park around noon, and an exciting afternoon was about to begin.

The live music wasn't the only entertainment at this year's Septemberfest. At 1:00, the second annual "Psych-a-thon" got underway. Once again, this year's Psych-a-thon included three

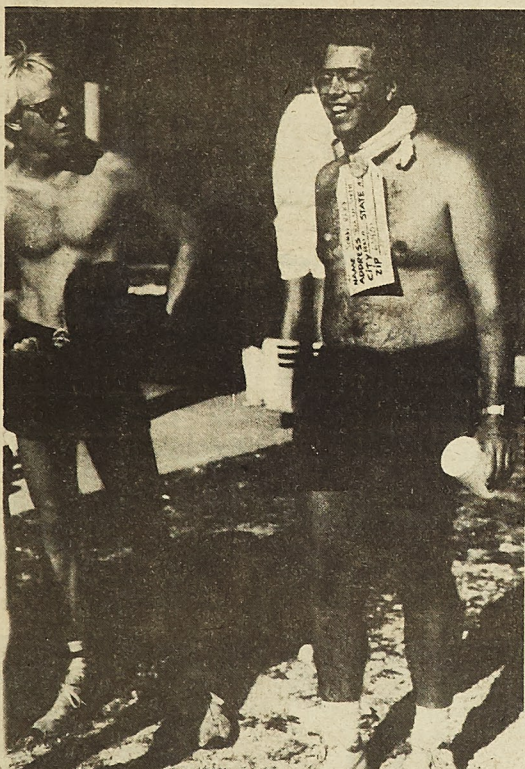
events—the Keg Toss, the Keg Carry, and the Keg Relay. Each organization that participated sent a four-man team to compete for a first prize of a 1/2 bbl. of refreshment. The men of Triangle won this year's Psych-a-thon based on overall points after the three events.

There was still more entertainment. At 3:30 on the platform where the band was playing, some of UMR's loveliest ladies competed in the sexy legs contest. This competition attracted a very large and enthusiastic crowd, and it was a great cap to a long afternoon of fun.

Overall, the combination of clear skies, an entertainment-filled afternoon, and a large cheerful crowd made the 1986 Septemberfest one of the best ever.



The mountains provided a relaxing atmosphere for the crowd to fill up on their favorite beverages.(Photo by Bill Macy)



"Geez Mr. Buck, you are a wild and crazy nut!"  
(Photo by Dave Voeller)



Sig Tau's Mike Westcott and Mike Wilkening give it a good effort in the Keg Carry.(Photo by Dave Voeller)



A break from the day's festivities was in dire need for this exhausted fellow!(Photo by Bill Macy)





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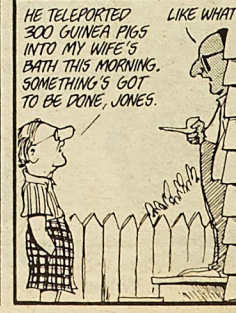
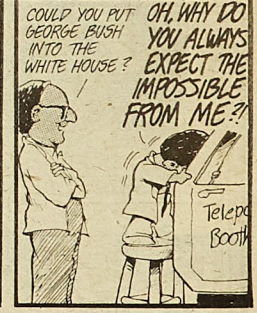
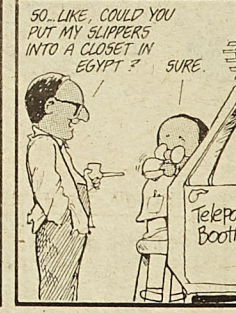
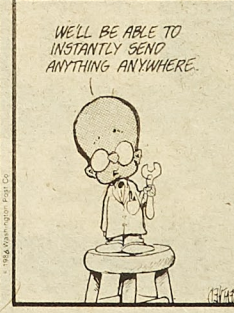
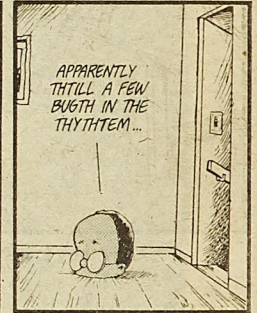
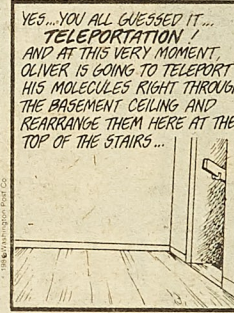
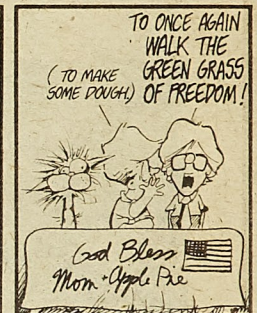
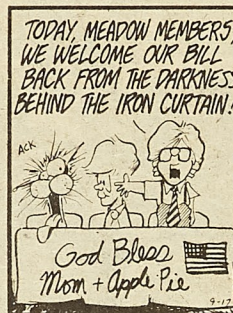
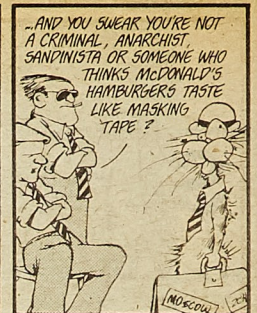
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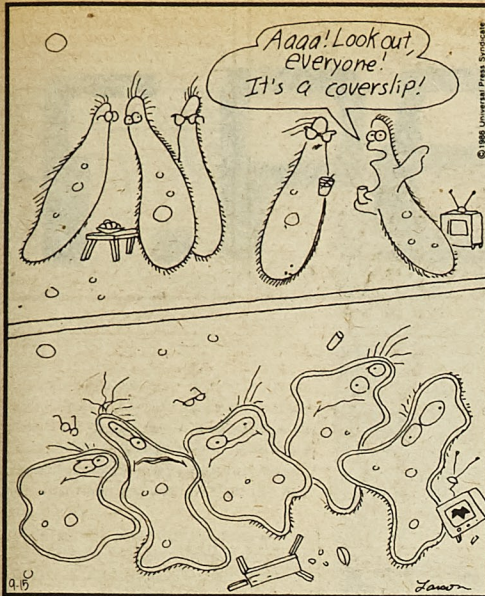
by Berke Breathed



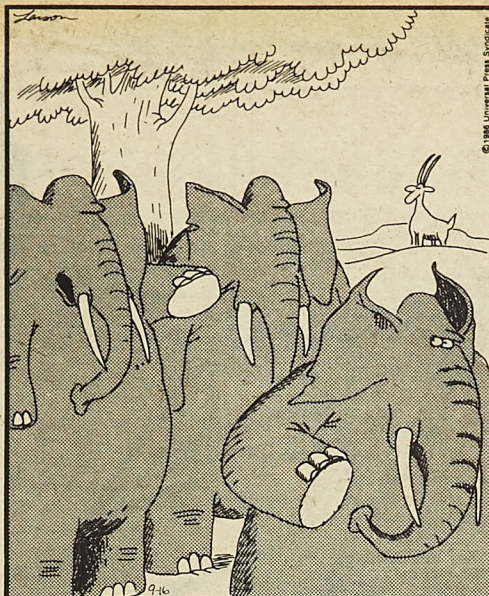


# THE FAR SIDE

By GARY LARSON



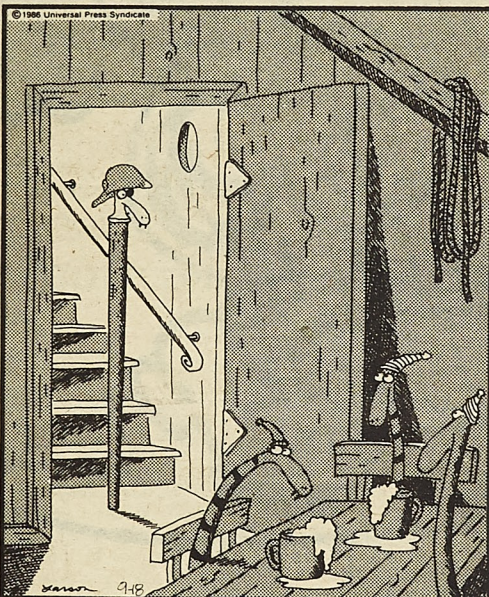
Life on a microscope slide.



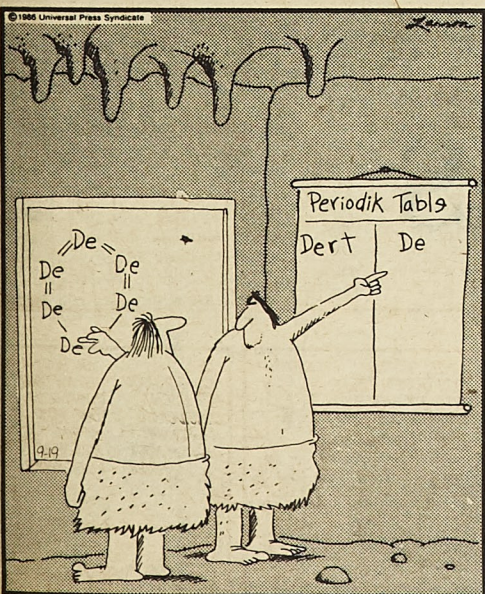
"You can run, Thomas, but you can't hide."



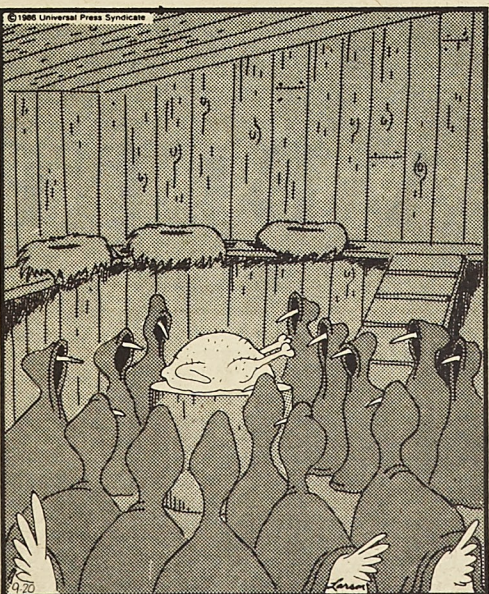
Only they know the difference.



The door swung wide, and there, to the horror of the other pirates, stood Captain Monet — unmistakable with his one eye and pegbody.



Early chemists describe the first dirt molecule



Chicken cults

## Toastmasters Communicate

Submitted by Toastmasters

Toastmasters International is an organization devoted to communication excellence. The club affords the opportunity to learn effective communication through practical experience. Practical experience includes prepared speeches, evaluations and completely impromptu speaking segments: all are a part of our 60 minute meetings. These situations are a lot like the corporate or classroom situation — see Toast page 16



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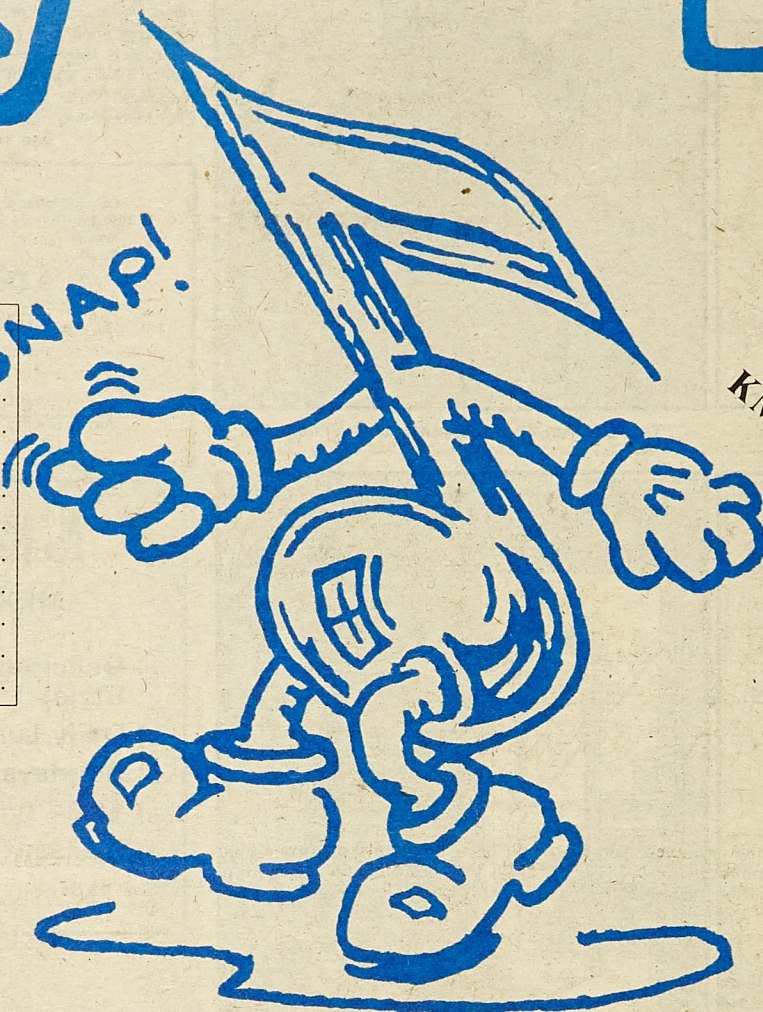
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Folk/Bluegrass	Wed 3-6 p.m.
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### Women Lady

By Tom Duggan  
Sports Editor  
In women's  
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# sports

## Women's Soccer

### Lady Miners lose to Lindenwood

By Tom Duggan  
Sports Editor

In women's soccer action last Tuesday, the Lady Miners lost to Lindenwood 2-1. Lindenwood scored early and scored again late in the first half. Cindy Driscoll scored the only goal for UMR.

According to Dr. John Watson, coach of the Lady Miners, UMR dominated the game with three times as many shots as Lindenwood, and only allowed one shot on goal in the second half. But they just couldn't get the ball into the net.

There are a few empty spaces on the Lady Miners' roster with both defender Clarisse King and goalkeeper Michelle Ditton out indefinitely with ankle injuries. That brings the total number of active players down to 13. Midfielder Angie McEntire filled the goalkeeper's spot for Ditton in last Tuesday's contest.

The Lady Miners had two away games over the weekend and will be away this Wednesday and Saturday against Missouri Baptist and Maryville respectively. The next home game is Friday, Sept. 26 at 7 p.m. against Missouri Baptist.



Defender Sally Puhlick races to cut off a Lindenwood forward. Though UMR dominated, they only managed to make one goal, losing 2-1. (Photo by Bill Macy)

## More Women's Soccer

### Lack of depth plagues UMR

By Tracy Boland  
Staff Writer

Fortune has not been smiling on the Lady Miners this past week. Not only did they suffer a tough loss to Lindenwood, but they also dropped two games to teams from Colorado in St. Louis over the weekend.

The outlook for the women at the beginning of the season was a rather cheering one. The team had picked up five new faces in the form of four freshmen and a transfer student, and had 10 players returning from last year. The starting keeper, Michelle Ditton, gained good experience as a freshman last year, and was expected to develop into a reliable, solid keeper during the season.

But only three weeks into the season, injuries have dealt the Miners some hard blows. Clarisse King, a freshman playing defense who proved herself tough competition in the backfield in the pre-season and opening games, is now on the sidelines on crutches due to a badly strained ankle. Ditton suffers from a similar injury received on the intramural playing fields. These injuries leave Angie McEntire, talented but inexperienced on the college level, in goal, and only two substitutes on the bench.

It was this latter factor that beat the Miners more than anything else this weekend.

On Saturday, UMR played Colorado College, a nationally-ranked team. The ladies played a very strong first half, defensively and offensively, and were down 2-0 at halftime. Despite the deficit in goals, the women played to Colorado's level, and the game seemed winnable by either team.

However, in the second half, the lack of depth on the bench took its toll. While the Colorado team was able to send in fresh and rested players, UMR had no such option. The team began to lag, leaving the Colorado players to

roam where they would.

The goal that broke UMR's defensive shell came early in the second half, when a Colorado player drove a shot at the top post. McEntire managed to tip the ball and save it from going in, but couldn't retain control. With ease, one of the three unmarked Colorado players shot 17 past her before she could recover.

After that point, it was basically a free-for-all on the part of Colorado, ending some 40 minutes later with UMR on the wrong end of an 8-0 shut-out. About the only thing that could be called a highlight came after Jean "Bean" Gardner was put in at goal for the Miners, and made a great save on a Colorado penalty shot.

The game on Sunday was much more palatable for the women. They played the University of Northern Colorado, a team that had beaten UMSL the previous day 3-1.

Once again, the first half of the game was very good for the Miners. They played excellent offense and defense, and had plenty of shots on the UNC keeper, one of which paid off in a goal. Mary Gasper, freshman mid-fielder, had a breakaway from the defense, took the ball in herself, and pushed it past the keeper, who couldn't get down to stop it.

Therefore, the Ladies were up 1-0 at halftime, a lead they fully intended to keep. However, it was a case of the spirit being willing and the bench being short. The Miners allowed three goals in the final half, not because the other team dramatically improved, but because UNC just plain outnumbered the women.

The ladies gain a bit of a breather this Wednesday as they take on Missouri Baptist in St. Louis. This game should prove interesting, since the Miners suffered a grating defeat to Missouri Baptist last year, and are eager to revenge lost honor.

### Intramural Football season starts with a blast

By Jim Lawson,  
Staff Writer

With the initial week of football over, Beta Sig Sig Ep and Sig Nu all hold 3-0 records in Division I football. CCH is close to the top with a 2-0 record and is the only other undefeated Division I team. Nearly all of the scores for the dates shown are printed below.

Football officials are still needed for the rest of the season. If you know the rules well, are impartial, and have good eyes call Dewey Allgood at 341-4175.

Football games scheduled for September 10th and any other games that may be cancelled will be played at the end of the regular season before playoffs start.

At the last Intramural Managers meeting it was announced that soccer will start earlier this year due to more football fields causing a shorter season. Therefore, entries are due at the next Intramural Managers meeting, September 24.

Swimming dates also were changed to October 7th and 8th due to Student Council Free Day.

Also, a warning went out to all organizations that alcohol, in any kind of container, is not allowed at any intramural sport. This included games played at the Frat Row fields. Organizations that violate this rule merit a forfeit of the game and a possible suspension from that sport.

Sigma Pi Epsilon was voted Team-of-the-Week for their football wins over TJN, 45-0, and Lambda Chi Alpha, 30-17.

John Overkamp, quarterback for Phi Kappa Theta, was voted Athlete-of-the-Week for his 7 touchdown

passes, his speed, and his long throwing ability. Congratulations to Sig Ep and John Overkamp!

Golf has already started, and will conclude this Sunday the 21st. Tennis and Horseshoes start Tuesday, September 16th. More scores, and the latest standings will be published in the next edition of the Missouri Miner.

## Men's Scores

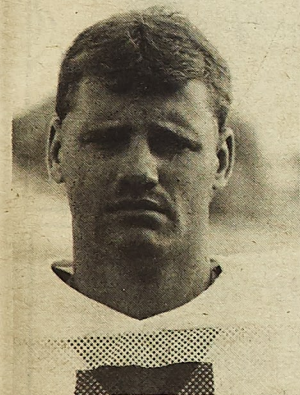
Sept. 4			
Beta Sig	28	Sig Chi	7
Pi KA	17	K A Psi	0
Sig Nu	30	Sig Pi	6
RHA	28	BSU	7
VETS	17	Sig Tau	16
Alpha Omega	25	Delta Sig	7
Sept. 8			
Sig Ep	30	Lambda Chi	17
Sig Pi	40	A E Pi	0
Phi Kap	49	Kappa Sig	0
Beta Sig	28	TKE	7
Pi KA	14	TEC	7 O.T.
GDI	34	Theta Xi	0
Delta Sig	21	LSC	15
Alpha Omega	28	Delta Tau	22
Sept. 9			
Sig Chi	1	TJN	0 O.T.
CCH	34	KA Psi	7
Sig Nu	14	KA	7
RHA	30	TJS	14
BSU	34	Pi Kap	0
Triangle	21	Vets	6
Sept. 10			
Beta Sig	21	Phi Kap	13
Sig Nu	14	Pi KA 7	
KA Psi	12	A E Pi	7
Sig Ep	7	Sig Chi	0 O.T.
KA	19	Sig Pi	0
Delta Tau	21	LSC	10
GDI	10	Delta Sig	0

## Women's Scores

Sept. 4			
RHA	7	Pi KA	2
GDI	62	ZTA	0
Sept. 8			
TJHA	27	AWS	0
Sept. 9			
Chi O	31	Alpha Omega	0
White Stars	7	Golden Hearts	6
Sept. 10			
Stardusters	26	K D	7



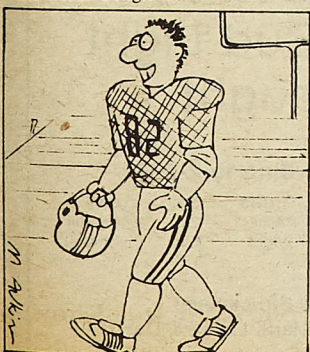
Tim Chojnacki fights a Lindenwood player for the ball. Last Tuesday's contest ended with UMR on top 4-3. After losing a pair of games this weekend, the Miners try to make a comeback at home tonight against Principia. (Photo by Dave Voeller)



## M-Club Athlete of the Week

Submitted by M-Club

Brent Arthaud, a 6'2", 225 lb. linebacker from Hannibal, Mo., is this year's first M-Club Athlete of the Week. Arthaud's defensive play was instrumental in leading UMR to a 38-22 win over Missouri Western in the Miner's debut. Arthaud tallied nine solo tackles and one interception for the game. For his efforts, Arthaud was also selected as the MIAA defensive player of the week. Congratulations, Brent.





## Sports Profile

# Kicker Zacny shows impressive stats

By Mark Buckner  
Staff Writer

The Chiefs have the most accurate place-kicker in pro football history in Nick Lowery. The Cardinals have the most successful kicker in college football history in John Lee. And the Miners have a kicker who will be breaking his own records—sophomore Jim Zacny.

Zacny needs just five more field goals to become the Miners' all-time leader for most fields goals kicked in a Miner career. From 1975-78, Tom Rosenauer booted 17 FGs and from 1979-82, Craig Thomas kicked the same number over four years.

But Zacny should shatter those marks with plenty to spare, especially

if he finishes his football career at UMR. He has an extremely good chance at breaking the record during the second half of this season.

Last year, Zacny was 24-of-26 on PATs and made 12-of-17 FGs. He tied the UMR record for most field goals in a season. Zacny was a major contributor to the team's 7-3 record last year.

Four of his 12 FGs came outside the 40. He kicked a couple of 42-yarders in a single game against SEMO. And in the same game, he missed a 57-yarder by two feet. His longest one last year was 49 yards. But his last field goal of the season has to be the most memorable.

In the final game with a lot of seniors playing their last game for

UMR, it wasn't a senior player that clinched the Miner victory. It was a tall, slender freshman who nailed a 44-yard field goal with just seconds left to give the Miners a come-from-behind 17-15 win—Jim Zacny. Head coach Charlie Finley continues to be amazed at all the poise and confidence Zacny has.

Zacny hasn't been overshadowed by the NCAA. He was ranked eighth by the NCAA Division II in a survey of the best Division II kickers. Zacny was the only freshman in the top ten. Jim doesn't seem to be going through the "sophomore jinx" because he has connected on all 11 of his extra point attempts this year. Keep it up, Jim.

## M-Club says thank you to softball turnout

Submitted by Brad Haug

The M-Club would like to thank those teams that participated in the softball tournament Sept. 5 and 6 at Ber Juan Park. This first annual tournament was a big success for the M-Club and we appreciate your support. The tournament was won by the Rebels who defeated ΠΚΑ in the championship series. Third place was won by ΦΚΘ. Congratulations to all and look for us again at the same time next year.

## UMR Rugby Team anticipates another challenging season

Submitted by Gregory Hubbard

For the past two weeks the UMR rugby team has been practicing at the fraternity row fields Monday through Thursday from 4 to 6 p.m. Led by team captain Dave Jones, the team has been increasing their flexibility, stamina and endurance. These attributes should prove vital to another successful campaign this year.

Much of the team's performance relies on the health and performance of the experienced veterans. Returning scrum expected to make a contribution to this year's squad are: Jim Adkins, Randy Balke, Al Bess, Greg Bohura and Greg Orlor. Returning also to

another grueling season are backs Dan Blood, John Fernandi, Dave Jones,

Chip McDaniel, Chris Reed, Bill Rich, Greg Schmidt and Ralph Stephenson.

Last spring the UMR rugby team took second place in the Missouri Rugby Championships (a.k.a. Langenberg Tournament) falling to UMC in the finals. This year the team is looking forward with growing anticipation to their upcoming season opener. They will take on the Ramblers, a St. Louis-based club, on Saturday, Sept. 19 at 1 p.m. at the fraternity row fields.

Highlighting the team's semester is the annual S.M.I.R.T. tournament here in Rolla on Oct. 4 and 5. All who are interested in participating this fall are encouraged to come to a few of the scheduled practices and prove they have the mettle to be a rugby player.

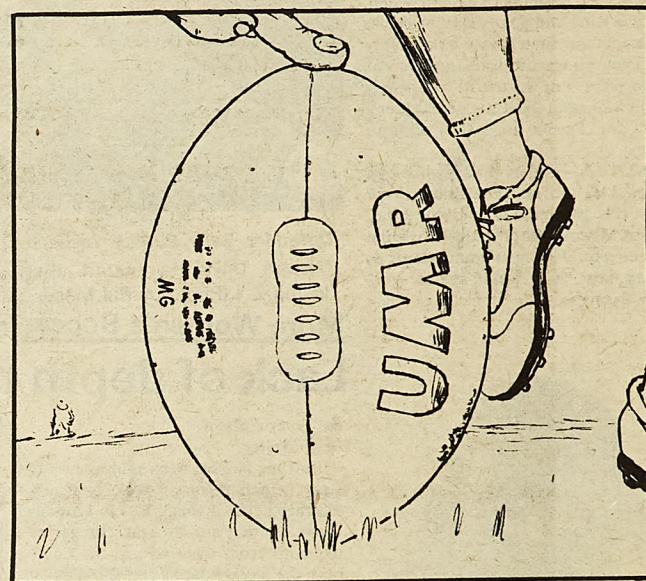
## SPORTS TRIVIA

1. How many times did John McEnroe win the U.S. Open between 1978 and 1984?
2. Name the pitcher who hit over .300 the most times.
3. How many batting titles did Horus Wagner have to his credit?
4. Who was the last American League pitcher to have the lowest ERA in back-to-back seasons?
5. Name the Boston Red Sox left-handed pitcher who faced Walter Johnson six times and won each encounter?
6. Bill Lee was one of baseball's free spirits. He called one group "Brown Shirts." Who was he referring to?
7. What college football stadium has the largest capacity?

### Answers:

(1) Four times, 1979-81, 1984. He has a .909 winning percentage with a 50-5 U.S. Open Record (through 1985); (2) Red Ruffing, 8; (3) Eight titles as a shortstop for the Pittsburgh Pirates; (4) Ron Guidry, New York, 1978, 1979; (5) Babe Ruth; (6) Billy Martin's New York Yankees; (7) Michigan Stadium, University of Michigan, Ann Arbor — 101,701.

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## Wanted Photographers

The Rollamo (student yearbook) needs photographers for the 1986-87 school year. If you are interested, call Britt Braswell, 364-1909 for more information. A 35mm camera is required.

There is also one editorial position open for an upper classman (junior or senior). For more information call Diane Clements, 341-4279.

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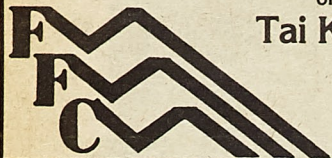
	CASIO FX-4000P	HP 15C	TI 60
Functions	160	115	124
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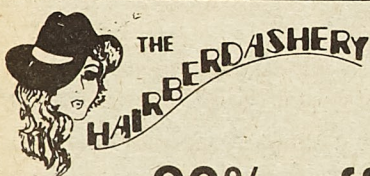
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The 1985-86 Rollamo will be distributed Monday, September 15 through Thursday, September 18, from 8:30 to 4:30. Only those students who paid fees for the Fall semester 1985 are entitled to the 1985-86 Rollamo.



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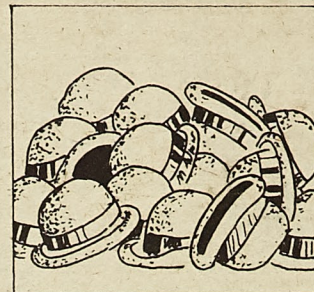
## Derby Day Highlights



Submitted by Sigma Chi

If you've been wondering who was wearing those plastic hats on campus last week, or if you were curious about the banners on the side of the Sigma Chi house, wonder no more. The answer to these and other curious events at UMR last week is Derby Days.

Derby Days are a tradition of the Sigma Chi chapters in the U.S. and Canada where the ladies of the campus compete in various games and money is raised for the Wallace Village for children, Sigma Chi's philanthropy. The events of Derby week include: a house decorating competition, a skits



competition, the choosing of a Derby Days queen, and the Derby Games—a mini-Olympics for the teams involved.

Competitors at UMR's Derby Days were the ladies of Chi Omega, Zeta Tau Alpha, Kappa Delta, Thomas Jefferson Hall and the Little Sigmas of Sigma Chi.

The trophies given out and this year's winners are: Spirit—Kappa Delta; Skits—Chi Omega; House Dec's—Kappa Delta; Games—Chi Omega; Queen—Jean Andersen of Kappa Delta; and the overall winner—Kappa Delta.

The men of Sigma Chi would like to thank all the ladies who put time and effort into this year's Derby Days, and would like to congratulate Jean Andersen.

## St. Pat's Facts

By Mike Gross  
Staff Writer

On behalf of the St. Pat's Board, I'd like to thank all those psyched people who came out to Septemberfest '86, enjoyed all the fun, and made it a great success. I'd also like to thank those who came out Friday night to the Cavern to get fired-up with the Board for the best Septemberfest ever.

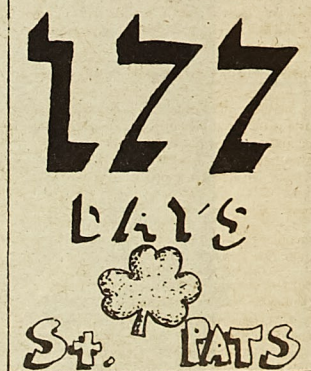
The deadline for the sweatshirt design shirt contest entries has been moved back to the 20th. It's not too late. Turn in your design by Saturday, and you will still be eligible for that \$200 first

prize!

Did you know?

The St. Pat's celebration lasted only one day until 1926. Previously, St. Pat's included the parade, the knight-ing ceremony and a vaudeville show, followed by the Masque Ball that evening. In 1926, a formal dance was added for the next evening, and six years later, in 1932, the celebration was expanded to three days when the fraternities began frolicking the evening before St. Patrick's Day.

177 daze left!



## Toast from page 11

tions you will face in the not-too-distant future.

In addition, you may be interested to know:

— We are still the only university in the world to boast its own Toastmasters Club.

— The roster of past and present Toastmasters reads like a who's who of rich, famous and successful people. This list includes prominent faculty at UMR.

— A wide range of students with varying majors and ages joins. A unique aspect of our club is the sizable list of graduate and foreign students who broaden our communication experience.

— Many corporations sponsor Toastmasters clubs which employees are encouraged to attend.

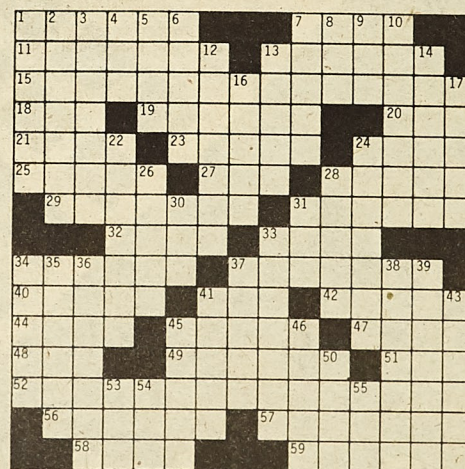
— Our meetings are video taped. The video tapes are on reserve in the library for your feedback.

If you're still apprehensive—"I'm afraid to speak in front of a group, especially a communication club"—Toastmasters members reply, "So were we!"

Toastmasters is an organization that helps to improve oral communication, overcome nervousness, and speak with confidence.

Meetings are every Thursday at 4:30 p.m. in H-SS G-9. On Thursday, September 18 at 4:00 in H-SS G-5 Toastmasters will have an open house.

## collegiate crossword



© Edward Julius Collegiate CW84-26

### ACROSS

- 1 In couples
- 7 Minnesota
- 11 Oregon seaport
- 13 Matador's cape
- 15 Correct speech (3 wds.)
- 18 Deface
- 19 Kept the furnace going
- 20 Omega's neighbor
- 21 General Bradley
- 23 Fits of anger
- 24 Barracuda
- 25 Begin to take effect (2 wds.)
- 27 "— a deal!"
- 28 Valletta is its capital
- 29 Removes from office
- 31 Most recent
- 32 Patrick James
- 33 Singer Vikki
- 34 Degraded
- 37 Summer business (2 wds.)
- 40 Hills in Le Havre
- 41 — banana
- 42 Style of painting (2 wds.)

### DOWN

- 44 Key-shaped
- 45 Conversation piece
- 47 Litiqant
- 48 Soviet division
- 49 "Peer gynt's," dancing girl
- 51 Postman's beat (abbr.)
- 52 Bogart movie classic (3 wds.)
- 56 What a majorette does
- 57 Most cacophonous
- 58 Kill
- 59 Contaminates
- 1 St. John's exile island
- 2 Having a hangdog look
- 3 Repeat
- 4 Korean soldier
- 5 Goddess of discord
- 6 Forces
- 7 Pecuniary resources
- 8 High school math (abbr.)
- 9 Part of AT&T, for short
- 10 Paint with dots
- 12 Terrific torments
- 13 Athletic contests
- 14 Business resources
- 16 Sketches
- 17 Deal a blow (2 wds.)
- 22 Fencing maneuver
- 24 Persian govern
- 25 Piano parts
- 28 — Polo
- 30 Mr. Grauman
- 31 Pertaining to the people
- 33 Part of a column
- 34 Of prime importance (2 wds.)
- 35 Beet soup (var.)
- 36 — Air Force Base
- 37 Column variety
- 38 — O'Hara
- 39 Certain exam
- 41 African capital
- 43 "— Last Case"
- 45 Singer Simon
- 46 Believe it —
- 50 Beginning for lung
- 53 Be unwell
- 54 — Filippo Lippi
- 55 North Caucasian language





# CLASSIFIED:

**The Little Sisters of Sigma Pi** invite all women to come to a Breakfast Club party Wed., Sept. 17. The party is from 8-11 and will be held at Sigma Pi (206 E. 12th Street).

**Hey Mike and Tom.**  
Welcome to the family! I'm thrilled to have you as little brothers. You guys are the greatest!  
—YBS

**Key.**  
I haven't forgotten you and you haven't been replaced. Oy yoy yoy yo.  
—Julie

**The men of Omega Psi Phi Fraternity Inc.** are having a smoker on Sept. 14. Manhood and scholarship come first.  
—Mighty Men of Omega

**Regular Tuesday ride of the Cycling Club.** A leisurely 1-1½ hour ride will leave from the Trace Place next to the Library at 3:45, weather permitting. Everyone is welcome. For additional information call Bill Parks at 341-4883 (day) or 364-1046 (evening).

**The UMR percussion section** needs more volume! We are looking for someone who is capable of playing snare drum. Must be willing to impress the world with incredible music and awe-inspiring sticking and visuals. Must enjoy being the rowdiest at football games and playing at Busch Stadium. Must call Rob for more details. 364-5183. dammit!

**Lost:** Tuesday, Sept. 9, HP-41CV calculator. 4th ed. Dynamics book. If found please contact Mike. TJ Room 204. 364-9906, leave message.

**Wanted:** One male or female roommate to share three bedroom trailer. Rent is \$75.00 and half electric. Gas not hooked up yet, cooking done on kerosene stove. Own room, shared kitchen, living room. In-house storage space. Need to have own lamps! Approx. one mile from UMR campus. Contact Tony at 51 Woodcrest before noon, seven days a week or leave name and number to contact.

**Pocket computer:** Radio Shack PC-5 in perfect condition for \$75. Call Carl at 341-2053.

**Death row prisoner,** caucasian male, age 40, desires correspondence with either male or female college students. Wants to form a friendly relationship and more or less just exchange past experiences and ideas. Will answer all letters and exchange pictures. If interest write to Jim Jeffers, Box B-38604, Florence, AZ 85232.

**Troll.**  
You're so fun! I'm glad I don't have to "watch out" for you. Thanks for a great weekend! (I think.)  
—Love, Miss Y

**Hey Cutie!**  
Happy seven.  
—Love, Phred

**Craig.**  
Congratulations on OU's tremendous victory over Jerry's Kids last Monday by the score of 21-20, but officials are checking on allegations that Coach Switzer let the air out of their wheelchairs at the two minute warning.

**I would like to thank** the following SUB Public Relations committee members for their interest and involvement with Student Union Board: Diane Duggan, Jonnie Fiscus, Paige Gibbs, Missy Hagler, Peggy Kolodziej, Scott Stocking, Rob Vorel and Greg Williams.  
—Lori Snelson  
Public Relations Director

**JB.**  
Thanks for making time for me this weekend, hope that it didn't interrupt your study machine mentality. How about going out some time, say around December 24th.  
—XXOO  
DRDSBCP

**Craig.**  
Congratulations on last night's victory. OU 42. Medicare Recipients International 35. Way to shut them down defense! An investigation into charges to follow. Next week's game—OU versus Blind Parapalegics. Go Big Red.

**P. Marvin.**  
You're my candle in the window.  
Such a warm and welcome sight.  
You're the star up in the sky  
That I follow every night.

So, keep on shining  
Or I'll lose my way.  
Please, help me make it  
Through another day.  
—Wilbur

**Sigma Pi** will be rockin' and rollin' at the Rolla Armory on Saturday, Sept. 20. The party starts at 7 p.m. with the live band, "One Night Stand." There'll also be door prizes and refreshments. Come and party with Sigma Pi. It'll be the party of the year!!

**Barbarian.**  
Even if you lack talent, I love you.  
—B.B.

**Wilbur.**  
Thanks for my good fortune.  
—P. Marvin

**Zippy.**  
Happy 7th!  
—Mississippi

**Magenta and Ivory.**  
You're looking good!  
—An old friend(?)

**Androcles.**  
Just don't go too far away.  
—Love, Leo

**D'nald.**  
I love you!!  
P.S. Want to hear about my dream last night? Ask my dragon!  
—Dragon

**Jim.**  
Just wanted to let you know how special I think you are!  
—Your Best Pal

**Carolynne.**  
I'm so glad that you are my little sister!  
—Love, YBS at Chi-O

**Mr. Sex God.**  
Here's to one great semester together! I love you very, very much!!  
—Your Hopelessly Devoted Beer Wench

**If football hasn't** satisfied your competitive spirit, then box in Lambda Chi Alpha's 8th annual Night at the Fights. No experience is necessary. Call 364-6839 or 364-9901 for details. You can even box against another fraternity or organization.

**Lady I.**  
Good luck on your tests this week and have a nice time this weekend you beautiful thing.  
—Greg



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## TROPICAL WHIRL

1 can (6 oz.) or 3/4 cup  
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Combine liquid ingredients in blender. Whirl until blended. Sprinkle with nutmeg. Makes 1 serving.

For more terrific pineapple juice recipes, write to Dole Pineapple Juice, Dept. PJ 6, P.O. Box 7758, San Francisco, CA 94120.

Courtesy Dole\*

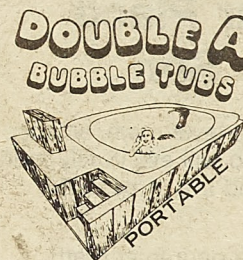


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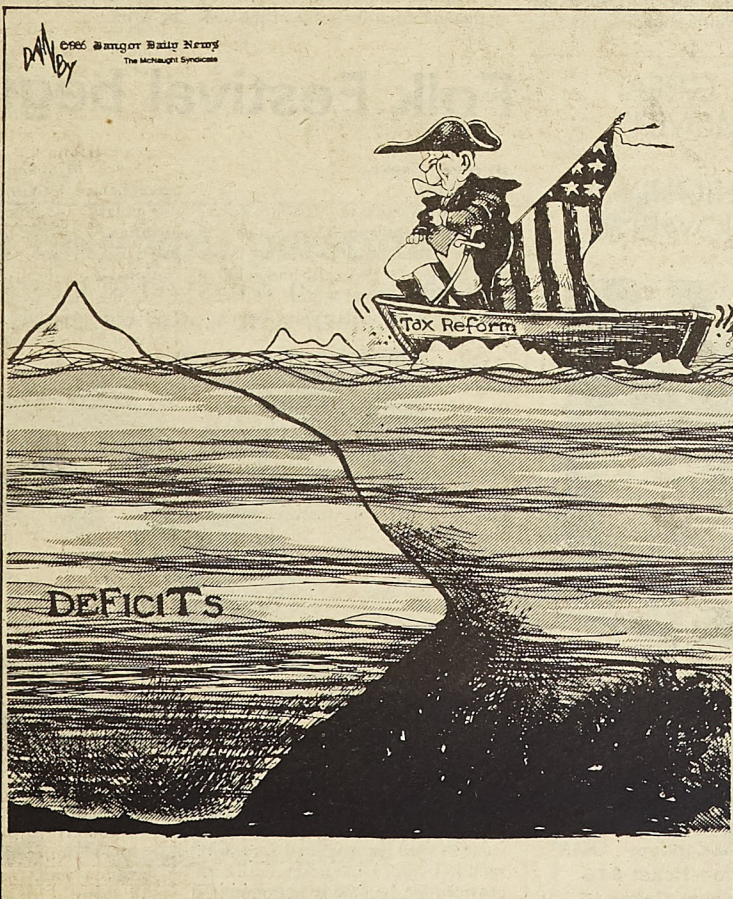
We still need:

★ News investigators and writers

★ Features writers (human interest and humor)

Sure I'll beg. Please apply soon. We're missing some very important stories for lack of MANPOWER.

305 Rolla Bldg., Fridays 1:30-2:15, or call 341-4235 anytime.





# Professor Knight compares Kennedy to Camelot

Source: OPI

The popular conception of John F. Kennedy's presidency as a 20th-century version of King Arthur's legendary Camelot is an idea that entered history only after the president's death, according to Dr. W. Nicholas Knight, a University of Missouri-Rolla professor of English.

Writing in an article entitled "Lancer: Myth-Making and the Kennedy Camelot," which appeared in the journal "Avalon to Camelot," Knight traces the process through which Kennedy came to be identified with the mythical English king.

"Looking back, some persons like to think of Kennedy's presidency as a magic time in American history when great men did great deeds, reason and the arts reigned triumphant, and idealism, romance and chivalry prevailed, just as we imagine they did in Arthurian times," Knight explained.

"But while Kennedy was in office, there was never any perception or discussion of his administration as Came-

lot, and JFK never thought of himself as Arthur or his presidency as Camelot," he continued. "The identification of Kennedy with Arthur is something that occurred only after the assassination."

In the article, Knight pinpoints the moment when the myth of Kennedy's Camelot was born in a conversation Jacqueline Kennedy had with historian Theodore White a week after the assassination.

"During this conversation, Jackie implored White to record for posterity the 'magic' that had existed during JFK's brief presidency so that Americans would never forget the man or the moment," he said.

"She also told him how she had become all but obsessed with a line from the musical 'Camelot' as a way of defining that time in history," he added. "That line was 'Don't let it be forgot, that once there was a spot, for one brief shining moment that was known as Camelot.'"

"Jackie also recounted how she and

the president would listen to a recording of 'Camelot' on an old victrola and the song the president loved most was the last one on the album," he added. "To her JFK's story could be told only in terms of Camelot."

Knight added that Jackie's myth-making also reminded Kennedy's mother of her son's youthful contact with Arthurian legends.

"Rose Kennedy explained that it did not surprise her that Jackie had taken Camelot as a symbol for JFK's life and presidency because of his boyhood reading of 'King Arthur and the Round Table' by A.M. Hadfield and his love of history and tales of adventure and chivalry in general," he said.

"This aspect of Kennedy's boyhood was something that Jackie also mentioned in her conversation with White," he continued.

Knight explained that others besides Jackie perceived Kennedy as Arthur. "Upon hearing of JFK's death, Texas Sen. Ralph Yarborough, who had ridden in the motorcade, was heard to say 'Excalibur (Arthur's sword) has sunk beneath the waves,'" he said.

"According to legend, Arthur, who was gravely wounded, ordered Sir Bedivere to cast his sword into a nearby lake. The sword was caught by a woman's hand, which brandished it three times before disappearing below the surface," he added.

According to Knight, historian William Manchester also played a key role in the identification of Kennedy with Arthur. "While White was the first to label Kennedy's time as Camelot in print, Manchester went beyond this and firmly identified Kennedy with the Arthur of legend," Knight said.

"Manchester's book 'The Death of a President' originally was to have borne the chivalric-sounding title of

'The Death of Lancer,' after the Secret Service code name for the president on the day of the assassination," he continued. "But this was changed by his editors."

Knight explained that Manchester did retain "Lancer" and other chivalric-sounding Secret Service code designations as section and chapter headings to organize his material.

"Jackie was 'Lace'; Walter Jenkins, the head of the Secret Service, was 'Vigilant'; the White House was 'Castle'; the Executive Mansion was 'Crown'; Air Force One was 'Angel'; the presidential retreat was 'Chateau'; and the president's bodyguards were 'Wand,' 'Watchman' and 'Warrior,'" he said.

"Manchester also tells us that on the night before the Kennedys left the White House to travel to Texas, they listened to selections from 'Camelot' by the Marine Band and the Air Force's Strolling Strings," he continued.

Knight added that Manchester's identification of Kennedy with Arthur became so strong that 20 years after the assassination he titled his book about JFK's presidency "One Brief Shining Moment."

"In fact, the dedication of the book was taken from Sir Thomas Malory's 'Le Morte d'Arthur' ('The Death of Arthur')." Knight said.

In summing up the process through which the myth of Kennedy as Arthur was created, Knight wrote, "The pattern imposed on Kennedy's life and death which recalled those of noted martyrs of the past was created by Jacqueline Kennedy, conveyed by White, and now in the eighties was solidified, particularly by William Manchester, as the legend of Arthur."

In his article, Knight also extends the Arthurian legend to provide mythic identities for some of the peo-

ple who were associated with Kennedy.

"Dave Powers, one of the president's closest friends, can be seen as Sir Lancelot; Jackie, of course, is Guinevere; Rose Kennedy is Igraine (Arthur's mother); Lee Harvey Oswald is Mordred (Arthur's evil nephew who was responsible for Arthur's death and the destruction of Camelot); White becomes Merlin; and Manchester is Sir Thomas Malory," Knight explained.

Events that occurred during Kennedy's presidency also can be made to fit the mold of the myth.

"The Peace Corps, for example, can be seen as JFK's Knights of the Round Table who went on their individual quests, fighting the dragons of poverty and helping populations in distress and enduring hardships for noble causes in strange and foreign lands," Knight said.

"Khrushchev, the Bay of Pigs, the Berlin Wall crisis, and the Test Ban Treaty represent Kennedy's counterparts to the Celtic Arthur's struggles and accommodations with the Saxons," he added.

"In addition, the space program becomes the modern search for the Holy Grail in which some seekers would perish and still others would explore the vast wilderness while raising questions of human purpose and the meaning of earthly existence."

For Knight the creation of the myth of Kennedy's Camelot is part of the healing process the nation went through following JFK's untimely death.

"The process of choosing a myth is

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**UMR Film Series**  
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Miles Auditorium UMR  
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Individual Ticket \$3

## Folk Festival begins

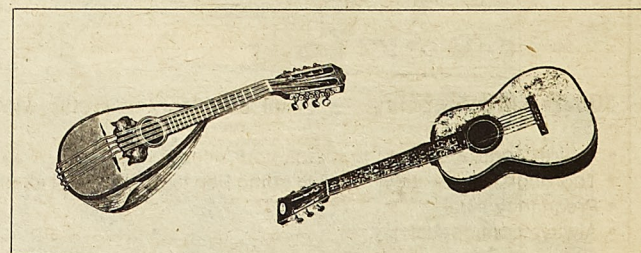
By Missy Hagler  
Staff Writer

The University of Missouri-Rolla's Campus Performing Arts Series will feature an evening of Ozark folk music with fiddler Art Galbraith and guitarist Gordon McCann at 8 p.m., Thursday Sept. 25, at the Cedar Street Center.

The late Ozark folklorist Vance Randolph called Art Galbraith the best Ozark fiddler he'd ever heard. A fiddler for over 65 years, Galbraith plays the Scottish/Ozark tunes (hornpipes, jigs and reels) which have been handed down in his family for generations, as well as more contemporary waltzes, rags and blues.

Since 1976 Galbraith has been accompanied by Gordon McCann, a fine guitarist and noted Ozark folk arts historian. Together they have participated in such major folk festivals as the National Folk Festival at Wolf Trap Park, the San Diego State College Folk Festival and the Frontier Folklife Festivals at the St. Louis Arch.

Admission to the concert is by season ticket or individual performance ticket (\$5 for retirees, \$6 for the general public). Advance tickets are available from 8 a.m.-noon and 12:30-4:30 p.m. at the reservationist's desk in the University Center-West. Tickets also will be available at the door one hour in



advance of the performance. UMR students will be admitted free with valid I.D. card. These tickets have been provided by the Fine Arts Committee of the Student Union Board.

The concert is presented by the Campus Performing Arts Series in cooperation with the UMR Student Union Board Fine Arts Committee, the Missouri Arts Council and the Mid-America Arts Alliance.



# Placement

from page 7

## U.S. MARINE CORPS, Columbia, MO

Will be represented on the UMR campus on the following dates: Sept. 29-30, 1986 Oct. 14-16, 1986

## REPRESENTATIVES AVAILABLE AT UNIVERSITY CENTER-UMR

## RASKAS FOODS, St. Louis, MO

Interview date of Sept. 30, 1986 - CANCELLED  
Possibility of rescheduled in Spring 1987.

## PURDUE UNIVERSITY-KRANNERT SCHOOL OF MANAGEMENT West Lafayette, IN

Interviewing recent grads (2-5 years) or May 1987 grads with BS/all disciplines for Graduate Students Master of Science, Industrial Administration, Management, and Human Resource Management at Purdue University, Krannert Graduate School of Management, West Lafayette, IN.  
G.P.A. REQUIREMENT: 2.8 OR BETTER  
INTERVIEWER: Dean Logan Jordan  
INTERVIEW DATE: Tuesday, Sept. 30, 1986  
NUMBER OF SCHEDULES: 1  
PRIORITY SIGNUP: Monday, Sept. 15, 1986  
REGULAR SIGNUP: Tuesday, Sept. 16, 1986

## LACLEDE GAS COMPANY, St. Louis, MO

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U.S. CITIZENSHIP IS REQUIRED.  
JOB LOCATION: St. Louis, MO  
INTERVIEWER: Tom McKelly  
INTERVIEW DATE: Tuesday, Sept. 30, 1986  
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NOTE: LACLEDE GAS DOES NOT EMPLOYEES RELATIVES OF CURRENT EMPLOYEES.

## SIEMENS ENERGY & AUTOMATION INC.

Interviewing DECEMBER 1986 or MAY 1987 grads with BS in ME, EE or Eng. Mgt. for Training Program leading to sales.  
U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
JOB LOCATION: Determined upon need  
INTERVIEWERS: unknown  
INTERVIEW DATE: Tuesday, Sept. 30, 1986  
NUMBER OF SCHEDULES: 1  
PRIORITY SIGNUP: Monday, Sept. 15, 1986  
REGULAR SIGNUP: Tuesday, Sept. 16, 1986

## ALCOA, Pittsburgh, PA

Interviewing DECEMBER 1986 or MAY 1987 grads with BS/MS in EE, ChE or Met E. Detailed job descriptions will be available at time of signups.  
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA REQUIRED.

STUDENTS ARE REQUESTED TO BRING A COPY OF THEIR TRANSCRIPT, OFFICIAL OR UNOFFICIAL, TO THEIR INTERVIEW (OBTAIN FROM REGISTRAR).

JOB LOCATION: Nationwide  
INTERVIEWERS: unknown  
INTERVIEW DATE: Wednesday, Oct. 1, 1986  
NUMBER OF SCHEDULES: 1-EE (MORNING & AFTERNOON)  
1-ChE (MORNING ONLY)  
1-Met Eng. (MORNING ONLY)

PRIORITY SIGNUP: Tuesday, Sept. 16, 1986  
REGULAR SIGNUP: Wednesday, Sept. 17, 1986

NOTE: SIGNUPS FOR ChE & Met Eng. WILL BE IN THE MORNING ONLY

## MONSANTO CHEMICAL CO., St. Louis, MO

Interviewing MAY 1987 grads with BS/MS in EE, ME or ChE or BS in Comp Sci for the following:  
BS in Comp Sci: Scientific Appl. Programmer - Write/test/debug/document software and utility programs on DEC and HP mainframes, supporting central research business needs;  
BS/MS in Comp Sci: Process Engr., Process Design, Process Development, Process Control Systems Design;  
BS/MS ChE/ME: Mechanical Design, Maintenance Engineering, Plant Engineering, Process Control Systems Design  
BS/MS in EE: Power Distribution, Lighting & Motor Control Design, Process Control Systems Design, Plant Engineering or Maintenance Engineering  
U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.  
ALL STUDENTS MUST COMPLETE AN APPLICATION FORM PRIOR TO INTERVIEW (AVAILABLE AT TIME OF SIGNUPS FOR INTERVIEWS).

JOB LOCATION: Nationwide  
INTERVIEWERS: Larry Estes (Comp Sci)  
Russ Jones (ChE, ME)  
Dave Ratterman (EE)

INTERVIEW DATES: OCTOBER 1, 2, 1986

NUMBER OF SCHEDULES: 1 ea day: Oct. 1 & 2 for B.S. in Comp Sci  
1: Oct. 1 for BS/MS in ME, ChE  
1: ea day Oct. 1 & 2 for BS/MS in EE

PRIORITY SIGNUP: Tuesday, Sept. 16, 1986  
REGULAR SIGNUP: Wednesday, Sept. 17, 1986

## PPG INDUSTRIES, INC., Pittsburgh, PA

Interviewing MAY 1987 grads with BS/MS in Chemistry (org & anal.), BS/ME, Comp Sci, Economics or Math for Dev.; Q.C.; Sales; Prod. Mgt.; Fin. Mgt.; Dev. Prog.; Mgt. Info. Systems  
U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.

JOB LOCATION: Nationwide  
INTERVIEWER: unknown  
INTERVIEW DATES: October 1, 2, 1986  
NUMBER OF SCHEDULES: 1 ea day, Oct. 1 & 2  
PRIORITY SIGNUP: Tuesday, Sept. 16, 1986  
REGULAR SIGNUP: Wednesday, Sept. 17, 1986

## EXXON, Houston, TX

Interviewing DECEMBER 1986 or MAY 1987 grads with BS/MS in ChE, ME, PE, GeolE, or Mining Engineering for ENGINEERING design and field assignments in production, marketing, refining & chemical operations, mfg., and R&D.  
U.S. CITIZENSHIP OR PERMANENT VISA IS REQUIRED.  
PREFER "B" AVERAGE

JOB LOCATION: Nationwide  
INTERVIEWERS: unknown  
INTERVIEW DATE: Wednesday, Oct. 1, 1986  
NUMBER OF SCHEDULES: 2

PRIORITY SIGNUP: Tuesday, Sept. 16, 1986  
REGULAR SIGNUP: Wednesday, Sept. 17, 1986

NOTE: STUDENTS MUST BRING COMPLETED EXXON APPLICATION AND COPY OF TRANSCRIPT TO INTERVIEW.  
Exxon Applications: available at time of signups  
OBTAIN TRANSCRIPT FROM REGISTRAR

## PHILLIPS PETROLEUM COMPANY, Bartlesville, OK

Interviewing DECEMBER 1986 or MAY 1987 grads with BS/ChE, ME or EE; BS/MS in PE or PhD in Chemistry. Detailed job descriptions will be available at time of signups.  
MUST BE PERMANENT RESIDENT.  
G.P.A. REQUIREMENT: 3.0 for ChE, ME, EE & Chem  
3.2 for PE

JOB LOCATION: Southwest  
INTERVIEWERS: unknown  
INTERVIEW DATES: Wednesday, Oct. 1, 1986  
Thursday, Oct. 2, 1986

NUMBER OF SCHEDULES: 1 ea day: Oct. 1 & 2 for ChE, ME & EE  
1 ea day: Oct. 1 & 2 for PE  
1 ea day: Oct. 1 & 2 for Chemistry

NOTE: INTERVIEWS END AT NOON ON Oct. 2, 1986  
\*MORNING SIGNUPS-MORNING INTERVIEWS ONLY FOR ChE

PRIORITY SIGNUP: Tuesday, Sept. 16, 1986  
REGULAR SIGNUP: Wednesday, Sept. 17, 1986

## JOHNSON CONTROLS, Systems & Services Div., Dallas, TX

Interviewing DECEMBER 1986 GRADS ONLY with BS/EE for Sales & Application.  
PERMANENT VISA WITH ABOVE AVERAGE COMMUNICATION SKILLS REQUIRED.

JOB LOCATION: Southwest Region  
INTERVIEWER: Ms. Jo Persons  
INTERVIEW DATE: Thursday, Oct. 2, 1986

NUMBER OF SCHEDULES: 1  
PRIORITY SIGNUP: Wednesday, Sept. 17, 1986  
REGULAR SIGNUP: Thursday, Sept. 18, 1986

## M&T CHEMICALS, INC., Woodbridge, NJ

Interviewing recent grads (2-5 yrs), or DECEMBER 1986 grads with BS in Met. Eng. for Sales/Marketing Trainees for plating chemicals for the metal finishing & electronic industries. Must be willing to travel & relocate. INTERVIEWS WILL BE 45 MIN. IN LENGTH.  
U.S. CITIZENSHIP REQUIRED  
G.P.A. REQUIREMENT: 2.5

INTERVIEWERS: Floyd Lytle & Dennis Hanlon  
INTERVIEW DATE: Thursday, Oct. 2, 1986  
NUMBER OF SCHEDULES: 1

PRIORITY SIGNUP: Wednesday, Sept. 17, 1986  
REGULAR SIGNUP: Thursday, Sept. 18, 1986

## SPERRY FLIGHT SYSTEMS, Albuquerque, NM

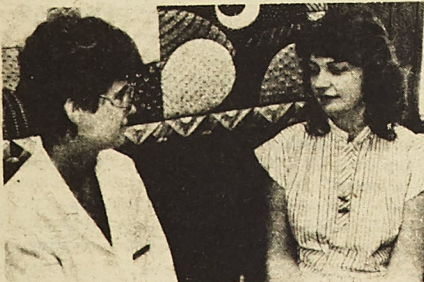
Interviewing DECEMBER 1986 grads with BS/MS in EE for Line Engineering Positions: Electronics Engineering, Systems Engineering, Software Engineering, or Electronic Packaging. (Students with BS/MS in ME may sign on overflow or back-up list only). U.S. CITIZENS ONLY.  
G.P.A. REQUIREMENT: 3.0

JOB LOCATION: Albuquerque, NM  
INTERVIEWER: Eric Gierschick  
INTERVIEW DATE: Thursday, Oct. 2, 1986  
NUMBER OF SCHEDULES: 1

PRIORITY SIGNUP: Wednesday, Sept. 17, 1986  
REGULAR SIGNUP: Thursday, Sept. 18, 1986

see Placement page 22

**We take you personally.**  
You want to be heard, not just seen.  
Our staff takes time to listen.



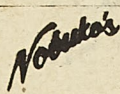
1032B Kingshighway Call 364-1509 in Rolla, Mo.

- A birth control method to match your needs
- Thorough annual check-ups including Pap test and breast exam
- Pregnancy tests
- Always confidential

(Call 364-1509 for appointment)



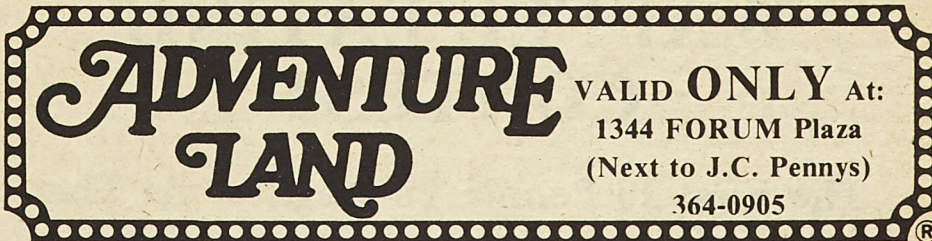
**Planned Parenthood®**  
of the Central Ozarks



**Hair  
Boutique**

Across from  
TJ Hall

**341-3800**



**ATTENTION ALL STUDENTS**

**THURSDAY IS YOUR NIGHT**  
Show Your Student I.D.

**RENT 2 MOVIES & VCR**

**\$400**



## Letters

Dear editor:

According to some experts, the world's population has now exceeded 5 billion people. Think about that, 5 billion people! In World War II American factories produced only 4 billion bullets. The mind fails to grasp the reality of a number that size. And you are only one in a sea of billions of people.

So here we are in a huge sea of people, and our institutions complicate matters by giving us a number. You can be identified by your social security number, student number, driver license number, credit card number, employee number, uniform number, and many more different numbers. Any time you wish to do something, you must present your number. How many times have you complained that you are just a number in a sea of numbers?

Society today has become cold and fast-paced, an impersonal rat race of numbers. In the quest for high technology we have forgotten about the individual's need and desire for personal attention. We have become subservient to the desire for a "higher level" of life. We have allowed people to become a number in a sea of numbers in a computer. Is there any hope? Yes, there is, but action will be required on your part.

The answer is right where you are; you are not required to wait in line, take a number, or call a number. The answer is a personal relationship with God. You are probably wondering

what He knows or if He cares. God is the One who created you in your mother's womb. He made you very unique; you are the only you in a world of 5 billion people. Nobody has the exact same thoughts, feelings, hair, eyes, or fingerprints. And God knows every single detail about you. The Bible says He knows even the number of hairs on your head.

The same God who created the heavens (all those stars!) and earth created you! So how can you have a personal relationship with your Creator? Here lies the problem. You see, we have ALL disobeyed God. That is called sin. Thus we broke God's moral law. There is Good News, however: God sent His Son, Jesus, to take our punishment for our sins. Now we can have a personal relationship with our Creator though Jesus Christ.

The purpose in becoming a Christian is not to keep yourself from being tossed into the eternal fires of hell—though it will save you from that—but to set you free from "the system." God thinks you are special. He made you special. He wants you to be guided by a loving, personal relationship with Him. He loves you dearly and was willing to see His Son crucified for you. Please do not turn your back on Him. Ask Him to wash away your sins and begin a relationship with Him.

Any questions, comments, or complaints please call 364-9841. Jesus LOVES you all.

Sincerely,  
Ron Jlkiewicz  
Christian Campus House

## Campus Capsules across the country

**A food fight** at Clemson U. resulted in the arrest of 18 students. The cost of the food fight to the school was \$1,141.51: 85 hours of cleaning, managers' hours, and replacement of broken dinnerware.

**Five chickens fell to their deaths** when two U. of Alberta agriculture students tossed them off a second floor balcony during an Engineering Week rally, according to the Canadian University Press. The students thought the chickens would land safely because chickens can fly short distances. The prank was intended "to maintain the ongoing rivalry between the ags and engineers."

**The Assassin Game** wasn't a lot of fun for a Michigan State U. student who found himself looking down the pistol barrels of two campus police officers. The student was stalking his "victim" in her residence hall with a toy gun when an RA spotted him, mistook him for a real criminal, and phoned the police. One officer says he is "frightened" by how close such incidents come to causing a serious accident.

### Around Campus

**A man claiming** to be a graduate student at the U. of Wisconsin is calling campus women and asking for explicit sexual information. The caller says he is conducting research for a dissertation on how open people will be when discussing sexuality. The UW psychology department says they know of no such project, and the campus police say canvassing by phone has not been authorized.

**Sneaking through steam tunnels** that connect several buildings at the U. of New Brunswick (Canada), a dozen students raided a student union storage room and made off with more than \$1,000 worth of beer. The students will be required to make full restitution, and to perform 20 hours of service to the university.

**The Selective Service System** will begin cross-checking draft registration records with computerized student aid data received from the Education Department to ensure that all male federal aid recipients have registered. The program will not require additional information from colleges and universities.

**Three student deaths** at the U. of Kansas last semester have prompted the student affairs office to develop a permanent campus committee on mental health. The committee will explore causes of undue stress for students, provide mental health services for students and help promote a "healthy and wholesome mental climate" for KU students.

**Swastikas and Ku Klux Klan initials** were painted on the Afro-American Cultural Center at Yale U. Students are not so upset with the graffiti as they are with the fact that more than two weeks passed before it was removed. One student noted that pro-divestment graffiti had been removed from a university building the same day it was written.

**Eighty percent** of those who receive parking tickets at Michigan State U. are repeat offenders, according to the MSU Department of Public Safety. The base ticket fine was increased from \$5 to \$20 last September in an attempt to deter on-campus parking, but the number of parking tickets issued during fall term 1985 was up 21% over fall term 1984.

**A rose by any other name** may smell as sweet, but students say it stinks when you call their university a college. Students from Mississippi's state university system are objecting to a state board's recommendation that the legislature downgrade the institutions from universities to colleges as part of an overall plan to cut spending. The president of Alcorn State U. says the name change will make it tough to attract top students and faculty and will "demoralize" students already enrolled.

**It may not be Space Invaders**, but it only costs a quarter and could save your life. According to the Canadian University Press, a student pub at the Ryerson Polytechnical Institute has a wall-mounted breathalyzer. Drop in a coin, breath through a straw, and a digital display tells you if your blood alcohol count is above the legal limit. The \$2,000 machine was installed by the local BACCHUS chapter, and is expected to pay for itself in one year. **The cost of attending** a public four-year school rose 7% between fall 1984 and fall 1985, according to a survey by the American Association of State Colleges and Universities and the National Association of State Universities and Land-Grant Colleges.

**State governments**, in 1985-86, will pour record amounts of money into student grant programs, according to a survey of the National Association of State Scholarships and Grants Programs. Aggregate need-based student aid offered by the states is expected to increase by more than 11%.

### Follow-up

**Unauthorized class visitors** to U. of Wisconsin classrooms could be fined \$10,000 and sent to jail for two years if a bill in the Wisconsin legislature becomes law. The bill is intended to thwart the efforts of Accuracy In Academia, the group using class monitors to identify so-called Marxist professors. **Students are celebrating** a victory in their anti-apartheid battle at the State U. of New York-Binghamton. The Marriott Corporation, the primary food service vendor for the Binghamton campus, was the target of student protest last spring because it has operations in South Africa. The administration had agreed to conduct a student referendum on whether Marriott's contract should be renewed in 1987, but Marriott recently announced that it is withdrawing from its South African operations.

### Good ideas

**A television monitor** at the Milwaukee Area Technical College will present titles of books which are unavailable and names of courses for which students cannot get books until they appear in class. Students had complained of standing in line for more than 45 minutes, only to find that the book they wanted was out of stock. During peak periods, the monitor's messages will be revised hourly.

### Greek Life

**The "Love Connection"** at Northwestern U. is a computer dating service run by the Lambda Chi Alpha fraternity and Alpha Epsilon Phi sorority to raise money for Easter Seals. For \$1, students can receive a list of students with whom they are "compatible." The students fill out a questionnaire about themselves, and a computer matches questionnaires with similar answers.

**Strippers and pornographic films**, as enticements for rushes, have been banned by the Syracuse U. Interfraternity Executive Council. The ban is based on an IFC constitutional clause requiring the fraternity system to uphold the image of the university. Some fraternities had substituted strippers and X-rated films for alcohol during last fall's dry rush.

**The Omega Psi Phi** fraternity's charter has been revoked until 1990 by the U. of Pittsburgh for hazing. Two students were injured during a pledge ritual—one suffering a ruptured eardrum, the other a fractured jaw.

### In class

To save students money, the Memorial U. (Canada) Faculty Senate has "resolved that undergraduate students may not be required to submit essays, projects, assignments or any other work forming part of their recognized programs of study in typewritten form."

**Before graduating** from Northern Illinois U., students must demonstrate knowledge of the Declaration of Independence, the constitutions of the United States and the state of Illinois, balloting procedures and proper use and display of the flag.

**A "gross discrimination"** is how an Auburn U. professor is describing the school's policy of admitting scholarship student-athletes with ACT scores below the school's usual requirement of 18. The professor warns that any exemptions to the minimum requirements could make the university vulnerable to lawsuits.

see Campus page 21

## WAFFLE HOUSE.

### \$100 CASH PRIZE

Waffle House Would Like To Extend A  
Personal Invitation To Celebrate Our 5th  
Anniversary With A

## WAFFLE EATING CONTEST

The First 30 People To Register At The  
Waffle House Restaurant Will Be  
Entered As Contestants For the First  
Annual Waffle Eating Contest, To Be  
Held Sept. 23 At 3 P.M.

Contact The Waffle House For Further Details

1910 N. Bishop

Open 24 Hrs.



## Campus

**"Careerism and Intellectualism Among College Students,"** a study by two Stanford U. researchers, found that women in college outnumber men more than two to one among "intellectuals" while men hold almost as high a ratio among "careerists." The four-year study explored how undergraduates make academic and career decisions. The most surprising finding, according to the researchers, is that "from the point of view of students, careerism and intellectualism are not mutually exclusive, or necessarily in conflict."

### Legal issues

**Jed and Cindy Smock** were ordered off campus by U. of Southern California security officers after the crowd listening to the couple's preaching became "disruptive and potentially harmful students." Smock, who was arrested at USC in 1983, said safety was not an issue and that campus security had violated his and his wife's rights.

**The U. of Winnipeg administration** is being accused of intimidating four students who complained that a university security guard yelled racist insults at them and threatened them with physical violence. According to the Canadian University Press, the incident occurred when the guard found the students studying in a seminar room an hour before the university officially opened for the day. The students say the school told them they would be charged with trespassing if they lodged a formal complaint against the guard.

**Hard alcoholic beverages** are temporarily banned from the Northwestern U. campus. The policy is a compromise between the school and its Interfraternity Council. The university had proposed a total ban of alcohol when the IFC lost its general and alcohol liability insurance.

**A Student Bill of Rights** is now under consideration by the Michigan legislature. If approved, the measure will eliminate double jeopardy when a student is tried off-campus in a court of law and by a university judiciary board for the same offense. The bill provides students with the right to an attorney, to a formal hearing before a jury comprised of student peers, to cross examine all witnesses, to appeal a hearing decision to the institution's governing board and against self-incrimination.

**A rule limiting campaigns** for student government to a three-day period may be challenged in court. A U. of Alabama student, running for student government president, is challenging the rule with the help of the American Civil Liberties Union. The student says the limitation restricts his, and other candidates', freedom of speech, and has already held an "illegal" campaign rally.

### Resources

**Internship applications** are now being accepted by the North American Students of Cooperation. NASCO promotes professional development in the cooperative movement by placing students in short-term summer jobs with cooperatives throughout the U.S. and Canada. (Contact: J. Cohen, NASCO, P.O. Box 7715, Ann Arbor, MI 48107; 313 663-0889.)

**Student violence** on campuses is the theme of a conference to be hosted by Towson State U. January 6-8, 1987. Subjects covered will include sexual assault, date rape, the role of campus police, violence in residence halls as domestic violence, counseling victims of violence, vandalism and prevention of violence. (Contact: For a paper or

workshop proposal form, call or write Jan M. Sherrill, Assistant Vice President for Student Services, Towson State U., 8000 York Rd., Towson, MD 21204; 301/321-2055.)

**Guide to Student Fund Raising—129 Ways to Raise Money** is a 79-page collection of creative and successful fund-raising ideas for student groups. (Contact: The guide is \$12.95, postage paid, from Future Homemakers of America, 1910 Association Dr., Reston, VA 22091.)

**Mortgaged Futures: How to Graduate From School Without Going Broke** tells how to apply for, and receive, financial aid; lists alternative financing plans; and shows how to find sources of money. (Contact: Available for \$9.95 from Hope Press, P.O. Box 40611, Washington DC 20016.)

**The Ninth Annual Conference** of the Association on Handicapped Student Services Programs in Post Secondary Education will be held in San Diego, Calif., July 23-26. Computerization, the latest technology in the field, learning disabilities, transition strategies, personal and professional growth, understanding legislation and the legislative process are some of the slated workshop topics. (Contact: Jane Jarow, P.O. Box 21191, Columbus, OH 43221; 614/488-4972, Voice/TDD.)

### Student government

Let's put the student back in student affairs was the theme of a protest attracting more than 500 students at the U. of North Carolina. The students, led by the UNC student government, charge the UNC Division of Student Affairs with ignoring the student voice on campus issues and of having a "deliberate policy of deceiving the students." The students have given the school a list of 25 grievances.

**Alabama-Gate:** The U. of Alabama student government vice president says he discovered a student senator rifling his office. The senator is a member of The Machine, a political coalition of select fraternities and sororities, and the vice president is running for president as a member of the Anti-Machine, a political party formed by independent and non-Machine Greek students.

### Student groups

**The Young Conservatives of Texas,** a student group at the U. of Texas, are monitoring classes to ensure "the free and liberal exchange of ideas—liberal, Marxist or conservative," and to ensure that grades are not based on a student's political viewpoints. Errant professors are confronted after class or during office hours.

**The Teen Connection,** organized by two Yale U. students, is a hotline run by and for teenagers in New Haven, Conn. The 15 staff members have received special training in listening skills and in understanding teen developmental problems such as sexuality, drugs, alcohol and ethnic difficulties in family and school. Either a nurse or a psychiatrist is on hand to help in emergencies.

**Students Against Multiple Sclerosis** decorated U. of Kansas campus trees with more than 800 feet of red and blue ribbons to make students wonder what was happening. The answer could be found at the group's on-campus information table. More than 150 schools nationwide are launching new fund-raising campaigns to fight multiple sclerosis.

**Nine campus organizations** representing students, athletes, Greeks, faculty and clergy rallied for divestment at the U. of Pittsburgh. The organizations have also collected more than 2,500

signatures on a divestment petition. **With sledgehammers in hand,** a dozen Dartmouth College students—10 of them from the staff of the conservative **Dartmouth Review**—attacked three shanties erected by students calling for the college to divest from South Afri-

can-tied companies. The incident sparked outrage among the more than 300 students who occupied the main administration building in protest. **Rape crisis centers** should be closed according to notes posted at the U. of Minnesota by a group calling itself

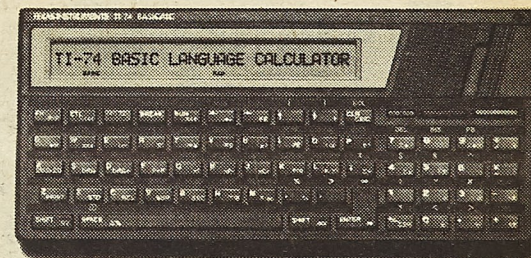
MAIM (Men Against Injustices imposed upon Men by women). The notes say that "The man haters who run these places consider all men rapists."

from page 20

## Your basic problem:

Physics  
Genetics  
Statistics  
Calculus  
Complex Numbers  
Analytical Geometry  
Stress Analysis  
Organic Chemistry  
Probability  
Gaussian Transformations  
Differential Equations  
Titrations  
Electromagnetics  
Thermodynamics  
Fluid Mechanics  
Etc., etc., etc. . . .

## Your BASIC solution:



## Introducing BASICALC™. The new Texas Instruments programmable calculator.

Now there's a programmable scientific calculator that solves even the most complex math, engineering and science problems in a BASIC way. The TI-74 BASICALC.

Unlike most other programmable calculators that require you to learn a new, complicated system of keystroke commands—in effect, a new

programming language—the TI-74 BASICALC allows you to use the BASIC language programming you already know.

But don't let the BASICALC's ease of operation fool you. It also has more calculating power than comparably-priced programmables. And a variety of options, like software cartridges, are available that make it even more powerful and convenient.

Stop by and see the TI-74 BASICALC for yourself. In basic terms, what it really offers you is a bargain.

**TEXAS**  
**INSTRUMENTS**

© 1986 TI.

**Your basic campus demonstration:**  
Texas Instruments will be conducting a free hands-on demonstration of the new TI-74 BASICALC. Check with University Bookstore for dates and times.



## co-op

Interview date: Monday, September 22, 1986

Brown Shoe Company  
Steelville, MO and Union, MO  
Interviewing: M.E.

Requirements: 3.0 GPA or above

Sign-up date: Thursday, September 11.

One schedule - 10 interview times  
5 am, 5 pm.

Interview date: Wednesday, Sept. 24, 1986

US GYPSUM COMPANY  
N. Kansas City, Missouri  
Interviewing: Mining

Requirements: 2.6 GPA or above, Permanent Visa/  
or US Citizenship, completing a minimum of 5  
semesters

Sign-up date: Tuesday, September 16.

One schedule - 14 interview times,  
8 am, 6 pm.

Interview date: Monday, September 29, 1986

MOOG AUTOMOTIVE INC.  
St. Louis, Missouri  
Interviewing: Met.E.

Requirements: 2.0 GPA or above, freshman or  
above

Sign-up date: Tuesday, September 16.

One schedule - 10 interview times  
4 am, 6 pm

Interview date: Monday, September 29, 1986

ANHEUSER BUSCH INC.  
St. Louis, Missouri

Interviewing: C.Sc., Eng.Mgmt.

Requirements: 2.8 GPA or above, Permanent  
Visa, completing 2 semesters or above

Sign-up date: Tuesday, Sept. 16.

One schedule - 13 interview times  
7 am, 6 pm

Interview date: Tuesday, September 30, 1986

MONSANTO - CARONDELET PLANT

St. Louis, Missouri

Interviewing: Ch.E., E.E., M.E.

Requirements: 2.0 GPA or above, American  
Citizenship required, completing 2 or more  
semesters - pick up a Monsanto application  
on the day of sign-ups.

Sign-up date: Wednesday, Sept. 17.

One schedule - 13 interview times  
7 am, 6 pm.

## Placement

from page 19

BUTLER MFG. COMPANY, Kansas City, MO

Interviewing DECEMBER 1986 or MAY 1987 grads  
with BS in CE (structural) for Structural De-  
signer.

G.P.A. REQUIREMENT: 2.8

JOB LOCATION: Kansas City or regional office

INTERVIEWER: Jeff Foaster

INTERVIEW DATE: Friday, Oct. 3, 1986

NUMBER OF SCHEDULES: 1

PRIORITY SIGNUP: Thursday, Sept. 18, 1986

REGULAR SIGNUP: Friday, Sept. 19, 1986

MIDWEST RESEARCH INSTITUTE, Kansas City, MO

Interviewing DECEMBER 1986 grads with BS/MS/  
PhD in Chemical (Environmental) Engineer;  
BS/MS in CE (Transportation), Engineering Man-  
agement or BS/MS/PhD in Chemistry (analytical  
or organic). U.S. CITIZENSHIP REQUIRED.

G.P.A. REQUIREMENT: 3.0 OR ABOVE

JOB LOCATION: Washington, D.C. or Raleigh,  
NC for ChE; KC, MO for CE, Eng. Mgt. or Chem.

INTERVIEWER: unknown

INTERVIEW DATE: Thursday, Oct. 2, 1986

NUMBER OF SCHEDULES: 1

PRIORITY SIGNUP: Wednesday, Sept. 17, 1986

REGULAR SIGNUP: Thursday, Sept. 18, 1986

HQ 1842 ELECTRONICS ENGINEERING GROUP (AFCC),  
SCOTT AIR FORCE BASE, IL

Interviewing DECEMBER 1986 or MAY 1987 grads  
with BS/MS in EE for GS-5 & GS-7 Electronics  
Engineers. U.S. CITIZENSHIP IS REQUIRED FOR  
SECURITY REASONS.

JOB LOCATION: Scott AFB near Belleville, IL  
(20 mi. east of St. Louis)

INTERVIEWER: Mr. James Larry Walker

INTERVIEW DATE: Friday, Oct. 3, 1986

NUMBER OF SCHEDULES: 1

PRIORITY SIGNUP: Thursday, Sept. 18, 1986

REGULAR SIGNUP: Friday, Sept. 19, 1986

WELLS MANUFACTURING COMPANY, Skokie, IL

Interviewing MAY 1987 grads with BS in Met Eng.  
for Project or Process Engineer.

U.S. CITIZENSHIP IS REQUIRED.

JOB LOCATION: Skokie, IL

INTERVIEWER: Mr. Robert Engelhardt

INTERVIEW DATE: Friday, Oct. 3, 1986

NUMBER OF SCHEDULES: 1

PRIORITY SIGNUP: Thursday, Sept. 18, 1986

REGULAR SIGNUP: Friday, Sept. 19, 1986

RESUME TURN IN FOR PROCTER & GAMBLE

December 1986 or May 1987 grads with BS/MS  
in ChE, ME, CE, EE or Eng. Mgt. interested  
in interviewing Procter & Gamble are requested  
to turn their resume in to Jane: G-3 Buehler  
Bldg., by September 17, 1986, during sign-up  
hours.

Procter & Gamble Open House to be held on  
September 23, 1986, from 8:00 a.m. to 1:00 p.m.  
in the Walnut Room.

MCCARTHY, St. Louis, MO

Interviewing DECEMBER 1986 grads with BS in CE  
or BS in Engineering Management (CE) for Project  
Engineer; Field, Estimating  
U.S. CITIZENSHIP IS REQUIRED.

G.P.A. REQUIREMENT: 2.5

JOB LOCATION: Continental U.S.A.

INTERVIEWERS: Tom Spencer & Gary Ansinger

INTERVIEW DATE: Friday, Oct. 3, 1986

NUMBER OF SCHEDULES: 2

PRIORITY SIGNUP: Thursday, Sept. 18, 1986

REGULAR SIGNUP: Friday, Sept. 19, 1986

SUNRISE SYSTEMS, North Kansas City, MO

Interviewing DECEMBER 1986 grads with BS in ME  
(Automatic Emphasis), BS in EE or Comp Sci.

U.S. CITIZENSHIP IS REQUIRED.

JOB LOCATION: Kansas City based

INTERVIEWER: Rick Sheahan

INTERVIEW DATE: Thursday, Oct. 2, 1986

NUMBER OF SCHEDULES: 1

PRIORITY SIGNUP: Wednesday, Sept. 17, 1986

REGULAR SIGNUP: Thursday, Sept. 18, 1986

UNION ELECTRIC, St. Louis, MO

Interviewing DECEMBER 1986 grads with BS/MS in  
EE, ME or NE; would also like to talk to indi-  
viduals completing graduate work in the areas of  
operations research, advance math, or probabili-  
ty and statistics. In all cases the individuals  
must have an accredited undergraduate engineering  
degree. U.S. CITIZENSHIP OR PERMANENT VISA IS  
REQUIRED.

G.P.A. REQUIREMENT: 2.5

JOB LOCATION: St. Louis & mid-Missouri

INTERVIEWERS: Robert L. Moeller

J.L. Nesselhauf

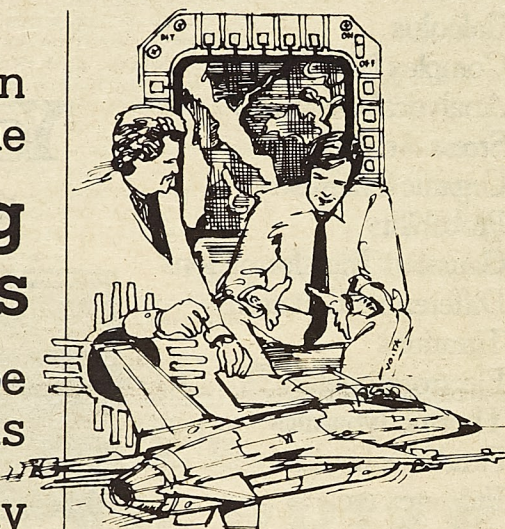
INTERVIEW DATE: Thursday, Oct. 2, 1986

NUMBER OF SCHEDULES: 2

PRIORITY SIGNUP: Wednesday, Sept. 17, 1986

REGULAR SIGNUP: Thursday, Sept. 18, 1986

# Sperry in Albuquerque Graduating Engineers Sperry will be on campus Thursday October 2



## Software Engineering

Creation, development and modification of  
software for real-time control. Applications  
include: Flight control, multiplex systems,  
production support equipment and validation  
and verification equipment.

Interested? If so, let's get together. We'd like  
to talk to you about our business and the  
Albuquerque lifestyle that offers you a vaca-  
tion climate and outdoor recreation year-  
round

Investigate the opportunities at Sperry by  
talking to us while we're on-campus. We'll fill  
you in on our competitive salaries and com-  
prehensive benefits. Contact your campus  
Placement Office to arrange to see us. If you  
are unable to see us on campus, please send  
your resume to Eric Gierschick, P.O. Box 9200,  
Albuquerque, NM 87119  
87119



Equal Employment Opportunity  
Affirmative Action Employer  
U.S. citizenship required

A career with Sperry will make real use of  
the time and energy you've put into the last  
four years. The result: We both profit. The  
more innovative our engineers, the more  
opportunities they create for themselves. We  
appreciate that. After all that's what makes us  
a growing company.

We're looking for B.S. graduates in electrical  
engineering. You may be involved in

## Electronic Engineering

Design and development of microprocessor  
based digital hardware or analog circuitry for  
use in electronics. Applications include: CRT  
display systems, flight control systems, flight  
reference systems and helicopter avionics  
systems.

## Systems Engineering

Avionics system analysis and design,  
emphasizing hardware and software inte-  
gration. Applications include: Aircraft control  
law development, optimization of algorithms  
for aircraft performance, systems specifica-  
tions design, flight dynamics and real-time  
operation.



★ ★ ★  
**Uncle Joe Wants YOU!**  
★ ★ ★

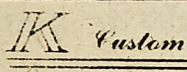


It isn't war, but putting out a quality weekly student newspaper is quite a battle with only half a staff.

The Miner is seeking to fill positions listed below:

- ★ Investigating, Reporting, Writing (ALL: News, Features, Sports)
- ★ Photography
- ★ Ads Sales, Design, Layout
- ★ Asst. Business Manager (general accounting, payroll, purchasing)
- ★ Typesetting (on computerized phototypesetter)

If YOU have a few hours to spare each week and want some extra cash (you didn't think we could make engineering students work for nothing, did you?), then apply by Calling 341-4235 day or night



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314-364-3085  
After 5 p.m.

## Desperately Seeking Typesetters

The Missouri Miner is in need of students to typeset our copy. If you are interested in **making money**, can type somewhat speedily, and have an affinity for computers, apply in person at our offices on the third floor of the Rolla Building or call 341-4235 or 364-5812.

## COLONIAL LANES, INC.

Bus. Loop I-44 W.  
364-4124

### Special Introductory Offer

3 Games of bowling & a large soft drink  
Regular \$5.05 value

for only \$4.00 with this coupon

Offer good Mon.-Fri. before 6 p.m.

Sat. 2-6 p.m. & Sun. 1-6 p.m.

Expires Sept. 30, 1986

Colonial Lanes Bus. Loop I-44 W

## IF YOUR BOOKSTORE DOESN'T CARRY SHARP CALCULATORS, CALL AND COMPLAIN.

Sharp calculators are designed to be first in their class.

Our EL-533 financial calculator for example, has twenty memories compared to just five for the competition. So it lets you do complex calculations like discounted cash flow analysis.



For those who prefer lab coats to pinstripes, there's our EL-506A scientific calculator. With its 10-digit display, direct formula entry and 93 scientific functions, it makes performing even the most

difficult calculations easy as pi. And because it's sleek, slim and stylish, you'll never look out of step as science marches on.

The fact is, Sharp makes all kinds of ingenious little calculators that can help get you through college. And help you pay for it.

Because unlike college... they're surprisingly affordable.

Calculators, Audio, A/V Equipment, Banking Systems, Broadcast Cameras, Cash Registers, Computers and Peripherals, Copiers, Electronic Components, Electronic Typewriters, Facsimile, Medical Products, Microwave Ovens, Televisions, Vacuum Cleaners, Video Recorders. © 1986 Sharp Electronics Corporation, Sharp Plaza, Mahwah, New Jersey 07430.



FROM SHARP MINDS  
COME SHARP PRODUCTS™



© Joe Munro



# opportunity

the missouri miner is creating  
opportunity for you.

we have several jobs that are available right now.  
by taking part you can:  
earn spending money  
build your resume



## news

Get a front page by-line. news writers do some digging and come up with an article. They talk to sources, find the scoop, then present it in a clear fashion.

## features

Entertainment. Hey, this is what's happening! Pep. Who's interesting . . . tell about it as a features writer.



multi-purpose  
man



## sports

Jim Harter says, "Sports carries the Miner." Sports writers carry the sports section. They cover the sports, figure them out, and laud the great plays to the UMR fans.

## photography

Snap! tzzzz! Look, if this paper's going to be more than 16-20 sheets of grey matter, it's going to have some snappy pics. Photographers catch the action—or inaction—the mood, the idea, the sense, the sight.

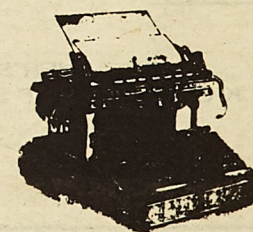


## ads sales & design

How else do most newspapers meet their budgets? An ads salesman covers a route, meets a community, and sells an ad. He works with people trying to sell their business. He helps them reach the students the best way possible.

## typesetting

Do you type fast? Do you and computers mesh just so? Great. The Miner is the proud owner of the most advanced photo-typesetting system in Rolla. We've got a place for you.



## involvement.

If this sounds good to you, get started in the miner. staffers, such as are described above, may rise eventually to editorships, or maybe even the big cheese in the back office!

If you're interested (and I know you are), fill out the information at the

right. send it in to the miner by dropping it in our drop box (first floor, rolla bldg, east side) or by mailing it to:  
the missouri miner  
302 rolla bldg.  
university of missouri-rolla  
rolla, mo 65401

name: \_\_\_\_\_  
phone: \_\_\_\_\_  
address: \_\_\_\_\_  
area(s) of interest: \_\_\_\_\_